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# GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY



**U. S. DEPARTMENT OF COMMERCE**

National Oceanic and Atmospheric Administration  
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Great Lakes Environmental Research Laboratory

Ann Arbor, Michigan

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PUBLICATIONS BY THE STAFF OF THE  
GREAT LAKES ENVIRONMENTAL RESEARCH LABORATORY

April 1974-March 1985

Dr. Eugene J. Aubert, Director

June 1985

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## PREFACE

The Great Lakes Environmental Research Laboratory (GLERL) was established on April 25, 1974, to provide a focus for NOAA's environmental research on the Great Lakes. GLERL was formed by combining the staff of the International Field Year for the Great Lakes (IFYGL) Project Office, Rockville, Maryland, with the Limnology and Computer Divisions, Lake Survey Center, Detroit, Michigan. The Ann Arbor, Michigan, laboratory was opened in August 1974.

GLERL's functional statement is as follows:

Conducts integrated, interdisciplinary environmental research in support of resource management and environmental services in coastal and estuarine waters with a special emphasis on the Great Lakes. The laboratory shall perform field, analytical, and laboratory investigations to improve understanding and prediction of coastal and estuarine processes and interdependencies with the atmosphere, land, and sediments. It shall place special emphasis on a systems approach to problem-oriented environmental research in order to develop environmental service tools. It shall provide assistance to resource managers and others in obtaining and applying the information and services developed by the laboratory.

This document lists all publications that include GLERL scientists as authors and were published from April 1974 through March 1985. The primary list of publications is alphabetized by senior author, followed by a secondary author cross-reference and finally a list alphabetized by title. A roster of the GLERL staff as of March 31, 1985, and an organizational chart are given in the appendix.

GLERL will furnish complimentary copies of available publications to requesting individuals and organizations as long as supplies last. Individuals and organizations may also request to have their names placed on any of several GLERL mailing lists to automatically receive new publications if they become available for free distribution. Every April and October, GLERL publishes a six-month publications update, which lists all new publications that have become available since the previous update. Interested parties should write to:

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PUBLICATIONS LISTED BY FIRST AUTHOR

1. Adams, C.E., Jr.\* 1976. Estimating water temperatures and time of ice formation on the Saint Lawrence River. *Limnol. Oceanogr.* 21:128-137.
2. Allender, J.H.†, and Saylor, J.H. 1979. Model and observed circulation throughout the annual temperature cycle of Lake Michigan. *J. Phys. Oceanogr.* 9:573-579.
3. Almazan, J.A.†, and Pickett, R.L.\* 1980. Water temperature. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 200-244. Ann Arbor: Great Lakes Environmental Research Laboratory.
4. Assel, R.A. 1974. *Great Lakes ice cover, winter 1973-74*. NOAA Technical Report ERL 325-GLERL 1.
5. Assel, R.A. 1976. Great Lakes ice thickness prediction. *J. Great Lakes Res.* 2:248-255.
6. Assel, R.A. 1976. *St. Lawrence River freeze-up forecast procedure*. NOAA Technical Memorandum ERL GLERL-6.
7. Assel, R.A. 1980. *Great Lakes degree-day and temperature summaries and norms, 1897-1977*. NOAA Data Report ERL GLERL-15.
8. Assel, R.A. 1980. Maximum freezing degree-days as a winter severity index for the Great Lakes, 1897-1977. *Mon. Wea. Rev.* 108:1440-1445.
9. Assel, R.A. 1983. *A computerized ice concentration data base for the Great Lakes*. NOAA Data Report ERL GLERL-24.
10. Assel, R.A. 1983. Description and analysis of a 20-year (1960-79) digital ice-concentration database for the Great Lakes of North America. *Ann. Glaciol.* 4:14-18.
11. Assel, R.A. 1983. *Lake Erie regional ice cover analysis: Preliminary results*. NOAA Technical Memorandum ERL GLERL-48.
12. Assel, R.A. 1983. *Lake Superior bathythermograph data: 1973-79*. NOAA Data Report ERL GLERL-25.
13. Assel, R.A. 1984. Sub-committee report: Summary of the discussion on ice information and forecasting. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 65-71. Ann Arbor: Great Lakes Environmental Research Laboratory.

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\*No longer affiliated with this laboratory.

†Not affiliated with this laboratory.

14. Assel, R.A., and Quinn, F.H. 1977. *Preliminary classification of Great Lakes winter severity, 1947-76.* GLERL Open File Report.
15. Assel, R.A., Boyce, D.E.<sup>†</sup>, DeWitt, B.H.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, and Keyes, F.A.<sup>†</sup> 1979. *Summary of Great Lakes weather and ice conditions, winter 1977-78.* NOAA Technical Memorandum ERL GLERL-26.
16. Assel, R.A., Quinn, F.H., Leshkevich, G.A., and Bolsenga, S.J. 1983. *Great Lakes ice atlas.* Ann Arbor: Great Lakes Environmental Research Laboratory.
17. Assel, R.A., Snider, C.R.<sup>†</sup>, and Lawrence, R.<sup>†</sup> 1984. *Great Lakes winter weather and ice conditions for 1982-83.* NOAA Technical Memorandum ERL GLERL-55.
18. Assel, R.A., and Lyon, J.G.<sup>†</sup>, ed. 1984. *Proceedings of the Great Lakes ice research workshop.* Ann Arbor: Great Lakes Environmental Research Laboratory.
19. Aubert, E.J. 1974. IFYGL: Scientific overview. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union,* pp. 8-21. Rockville: National Oceanic and Atmospheric Administration.
20. Aubert, E.J. 1976. The energy-related Great Lakes research program of the Department of Commerce. In *Proceedings, second federal conference on Great Lakes,* ed. J.S. Marshall, pp. 480-492. Ann Arbor: Great Lakes Basin Commission.
21. Aubert, E.J. 1976. Great Lakes. In *1976 McGraw-Hill yearbook of science and technology,* ed. D.N. Lapedes, pp. 200-204. New York: McGraw-Hill.
22. Aubert, E.J. 1978. Cross-panel considerations. *IFYGL Bull.* 22:96-103.
23. Aubert, E.J. 1978. Relevance of IFYGL. *Verh. Internat. Verein. Limnol.* 20:317-323.
24. Aubert, E.J. 1984. Advisory mechanisms supporting the mission of the IJC. In *Review of the Great Lakes Water Quality Agreement--Working papers and discussion,* pp. 68-86. Washington, DC: The Water Science and Technology Board, National Research Council, National Academy Press.
25. Aubert, E.J. 1984. *Capabilities of various research organizations to provide information on Great Lakes water quality.* NOAA Technical Memorandum ERL GLERL-52.
26. Aubert, E.J., Allen, H.E.<sup>†</sup>, Roseborough, J.D.<sup>†</sup>, and Watson, A.E.P.<sup>†</sup> 1976. *Great Lakes water quality research needs, 1976.* Windsor, ON: International Joint Commission.

27. Aubert, E.J., and Richards, T.L.<sup>†</sup> 1981. Summary of accomplishments. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 367-384. Ann Arbor: Great Lakes Environmental Research Laboratory.
28. Aubert, E.J., and Richards, T.L.<sup>†</sup>, ed. 1981. *IFYGL--The International Field Year for the Great Lakes*. Ann Arbor: Great Lakes Environmental Research Laboratory.
29. Baer, F.<sup>†</sup>, Rao, D.B.\*<sup>\*</sup>, and Boudra, D.<sup>†</sup> 1976. *Studies on numerical modeling and modification of cyclone scale precipitation*. Report prepared by the University of Michigan for the U.S. Army Research Office under Contract No. DAHC04-73-C-0001.
30. Bell, G.L. 1978. *Characteristics of the Oswego River plume and its influence on the nearshore environment*. NOAA Technical Memorandum ERL GLERL-22.
31. Bell, G.L. 1980. *Eastern Lake Ontario and Oswego and Rochester Harbors chemical and physical characteristics data for 1971*. NOAA Data Report ERL GLERL-8.
32. Bell, G.L. 1980. *Eastern Lake Superior chemical and physical characteristics data for 1968*. NOAA Data Report ERL GLERL-5.
33. Bell, G.L. 1980. *Lake Erie chemical and physical characteristics data for 1965*. NOAA Data Report ERL GLERL-2.
34. Bell, G.L. 1980. *Lake Erie chemical and physical characteristics data for 1967*. NOAA Data Report ERL GLERL-4.
35. Bell, G.L. 1980. *Lake Huron chemical and physical characteristics data for 1966*. NOAA Data Report ERL GLERL-3.
36. Bell, G.L. 1980. *Lake Ontario chemical and physical characteristics data for 1972*. NOAA Data Report ERL GLERL-9.
37. Bell, G.L. 1980. *Lake St. Clair and St. Clair and Detroit Rivers chemical and physical characteristics data for 1974*. NOAA Data Report ERL GLERL-12.
38. Bell, G.L. 1980. *Northern Lake Michigan chemical and physical characteristics data for 1970*. NOAA Data Report ERL GLERL-7.
39. Bell, G.L. 1980. *Oswego Harbor, New York, chemical and physical characteristics data for 1972*. NOAA Data Report ERL GLERL-10.
40. Bell, G.L. 1980. *Southern Lake Michigan chemical and physical characteristics data for 1975*. NOAA Data Report ERL GLERL-13.
41. Bell, G.L. 1980. *Straits of Mackinac chemical and physical characteristics data for 1973*. NOAA Data Report ERL GLERL-11.

42. Bell, G.L. 1980. *Western Lake Superior chemical and physical characteristics data for 1969.* NOAA Data Report ERL GLERL-6.
43. Bell, G.L., and Eadie, B.J. 1983. Variation in the distribution of suspended particles during an upwelling event in Lake Michigan in 1980. *J. Great Lakes Res.* 9:559-567.
44. Bennett, E.B.<sup>†</sup>, and Saylor, J.H. 1974. IFYGL water movement program--A post field work review. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union*, pp. 102-127. Rockville: National Oceanic and Atmospheric Administration.
45. Bennett, E.B.<sup>†</sup>, and Saylor, J.H. 1977. Physical limnology. In *The waters of Lake Huron and Lake Superior, vol. III, part B: Lake Superior*, ed. Upper Lakes Reference Group, pp. 249-276. Windsor, ON: International Joint Commission.
46. Bennett, J.R. 1977. A model of Lake Ontario's circulation. *IFYGL Bull.* 21:38-43.
47. Bennett, J.R. 1978. A three-dimensional model of Lake Ontario's summer circulation. II. A diagnostic study. *J. Phys. Oceanogr.* 8:1095-1103.
48. Bennett, J.R., and Magnell, B.A.<sup>†</sup> 1979. A dynamical analysis of currents near the New Jersey coast. *J. Geophys. Res.* 84:1165-1175.
49. Bennett, J.R., and Schwab, D.J. 1981. Calculation of the rotational normal modes of oceans and lakes with general orthogonal coordinates. *J. Comput. Phys.* 44:359-376.
50. Bennett, J.R., Clites, A.H., and Schwab, D.J. 1983. *A two-dimensional lake circulation modeling system: Programs to compute particle trajectories and the motions of dissolved substances.* NOAA Technical Memorandum ERL GLERL-46.
51. Bolsenga, S.J. 1975. Estimating energy budget components to determine Lake Huron evaporation. *Water Resour. Res.* 11:661-666.
52. Bolsenga, S.J. 1976. Lake Huron surface water temperature, May-November 1966. *Water Resour. Bull.* 12:147-156.
53. Bolsenga, S.J. 1977. Lake-land precipitation relationships using northern Lake Michigan data. *J. Appl. Meteorol.* 16:1158-1164.
54. Bolsenga, S.J. 1977. Preliminary observations on the daily variation of ice albedo. *J. Glaciol.* 18:517-521.
55. Bolsenga, S.J. 1977. *The radiation balance over a continuous snow surface: A review.* GLERL Open File Report.
56. Bolsenga, S.J. 1978. *On the use of multispectral radar to define certain characteristics of Great Lakes ice.* NOAA Technical Memorandum ERL GLERL-17.

57. Bolsenga, S.J. 1978. *Photosynthetically active radiation transmission through ice.* NOAA Technical Memorandum ERL GLERL-18.
58. Bolsenga, S.J. 1978. Spectral distribution of radiation in the northern Great Lakes during winter. *J. Great Lakes Res.* 4:226-229.
59. Bolsenga, S.J. 1978. A technique for estimating monthly global radiation. *Water Resour. Bull.* 14:679-688.
60. Bolsenga, S.J. 1979. Determining overwater precipitation from overland data: The methodological controversy analyzed. *J. Great Lakes Res.* 5:301-311.
61. Bolsenga, S.J. 1979. *Solar altitude effects on ice albedo.* NOAA Technical Memorandum ERL GLERL-25.
62. Bolsenga, S.J. 1980. *New observations on the daily variations of natural ice albedo.* NOAA Technical Memorandum ERL GLERL-27.
63. Bolsenga, S.J. 1981. Radiation transmittance through lake ice in the 400-700 nm range. *J. Glaciol.* 27:57-66.
64. Bolsenga, S.J. 1981. Spectral reflectances of freshwater ice and snow from 340 through 1100 nm. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
65. Bolsenga, S.J. 1982. *Mathematical models of slope development--A review.* GLERL Open File Report.
66. Bolsenga, S.J. 1983. Spectral reflectances of snow and freshwater ice from 340 through 1100 nm. *J. Glaciol.* 29:296-305.
67. Bolsenga, S.J. 1984. Nearshore Great Lakes ice thicknesses and stratigraphics. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 23-30. Ann Arbor: Great Lakes Environmental Research Laboratory.
68. Bolsenga, S.J. 1984. Shortwave reflectance and transmittance of ice and snow. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 10-22. Ann Arbor: Great Lakes Environmental Research Laboratory.
69. Bolsenga, S.J., and Norton, D.C. 1975. *Eastern Lake Ontario precipitation network.* NOAA Technical Memorandum ERL GLERL-5.
70. Bolsenga, S.J., and Hagman, J.C.\* 1975. On the selection of representative stations for Thiessen polygon networks to estimate Lake Ontario over-water precipitation. *IFYGL Bull.* 16:57-62.
71. Bolsenga, S.J., and Kistler, R.D. 1982. A dual spectroradiometer system for measuring spectral reflectances. *J. Appl. Meteorol.* 21:642-647.

72. Bolsenga, S.J., and Greene, G.M.\* 1984. Techniques to measure the spectral reflectance of ice. *SPIE* 489:384-391.
73. Bowers, J.A.†, and Vanderploeg, H.A. 1982. In situ predatory behavior of *Mysis relicta* in Lake Michigan. *Hydrobiologia* 93:121-131.
74. Bowling, J.W.†, Leversee, G.J.†, Landrum, P.F., and Giesy, J.P.† 1983. Acute mortality of anthracene-contaminated fish exposed to sunlight. *Aquat. Toxicol.* 3:79-90.
75. Boyd, J.D.\* 1979. A surface spill model for the Great Lakes. GLERL Open File Report.
76. Boyd, J.D.\* 1980. Metalimnetic oxygen minima in Lake Ontario, 1972. *J. Great Lakes Res.* 6:95-100.
77. Boyd, J.D.\*<sup>†</sup>, and Eadie, B.J. 1977. Evaluation of U.S. IFYGL chemical data at the master stations. *IFYGL Bull.* 21:49-61.
78. Boyd, J.D.\*<sup>†</sup>, and Eadie, B.J. 1978. Temperature and dissolved oxygen data for Lake Ontario, 1972 (IFYGL). NOAA Technical Memorandum ERL GLERL-21.
79. Bradbury, J.P.†, Tarapchak, S.J., Waddington, J.C.B.†, and Wright, R.F.† 1975. The impact of a forest fire on a wilderness lake in northeastern Minnesota. *Verh. Internat. Verein. Limnol.* 19:875-883.
80. Braster, R.E.†, Chapra, S.C.\*<sup>†</sup>, and Nossa, G.A.† 1975. A computer program for the steady-state water quality simulation of a stream network. Documentation for SNSIM1/2. New York: Environmental Protection Agency.
81. Callahan, C.J.†, McCulloch, J.A.W.†, Aubert, E.J., and Rasmussen, E.M.† 1976. IFYGL rawinsonde data acquisition system. IFYGL Technical Manual No. 6.
82. Chambers, R.L.\*<sup>†</sup>, and Upchurch, S.B.† 1979. Multivariate analysis of sedimentary environments using grain-size frequency distributions. *Math. Geol.* 11:27-43.
83. Chambers, R.L.\*<sup>†</sup>, and Eadie, B.J. 1980. Nearshore chemistry in the vicinity of the Grand River, Michigan. NOAA Technical Memorandum ERL GLERL-28.
84. Chambers, R.L.\*<sup>†</sup>, Eadie, B.J., and Rao, D.B.\* 1980. Role of nepheloid layers in the cycling of particulate matter. *Coast. Oceanogr. Climatol. News* 2:32-33.
85. Chambers, R.L.\*<sup>†</sup>, and Eadie, B.J. 1981. Nepheloid and suspended particulate matter in southeastern Lake Michigan. *Sedimentology* 28:439-447.

86. Chapra, S.C.\* 1975. Comment on "An Empirical Method of Estimating the Retention of Phosphorus in Lakes" by W.B. Kirchner and P.J. Dillon. *Water Resour. Res.* 11:1033-1034.
87. Chapra, S.C.\* 1977. Total phosphorus model for the Great Lakes. *J. Environ. Eng. Div., ASCE* 103:147-161.
88. Chapra, S.C.\* 1978. Closure for "Total Phosphorus Model for the Great Lakes." *J. Environ. Eng. Div., ASCE* EE6:1309-1310.
89. Chapra, S.C.\* 1979. Applying phosphorus loading models to embayments. *Limnol. Oceanogr.* 24:163-168.
90. Chapra, S.C.\* 1980. Application of phosphorus loading models to river-run lakes and other incompletely mixed systems. In *Restoration of lakes and inland waters*, Report No. EPA 440/5-81-010, pp. 329-334. Washington, DC: U.S. Environmental Protection Agency.
91. Chapra, S.C.\* 1980. Application of the phosphorus loading concept to the Great Lakes. In *Phosphorus management strategies for lakes*, ed. R.C. Loehr, C.S. Martin, and W. Rast, pp. 135-152. Ann Arbor: Ann Arbor Science.
92. Chapra, S.C.\* 1980. Simulation of recent and projected total phosphorus trends in Lake Ontario. *J. Great Lakes Res.* 6:101-112.
93. Chapra, S.C.\* 1982. A budget model accounting for the positional availability of phosphorus in lakes. *Water Res.* 16:205-209.
94. Chapra, S.C.\* 1982. Long-term models of interactions between solids and contaminants in lakes. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
95. Chapra, S.C.\* , and Nossa, G.A.† 1974. *A computer program for the modeling of water quality parameters in steady-state multi-dimensional natural aquatic systems*. Documentation for HAR03. New York: Environmental Protection Agency.
96. Chapra, S.C.\* , and Tarapchak, S.J. 1976. A chlorophyll  $\alpha$  model and its relationship to phosphorus loading plots for lakes. *Water Resour. Res.* 12:1260-1264.
97. Chapra, S.C.\* , and Robertson, A.\* 1977. Great Lakes eutrophication: The effect of point source control of total phosphorus. *Science* 196:1448-1450.
98. Chapra, S.C.\* , and Reckhow, K.H.† 1979. Expressing the phosphorus loading concept in probabilistic terms. *J. Fish. Res. Board Can.* 36:225-229.
99. Chapra, S.C.\* , and Sonzogni, W.C.\* 1979. Great Lakes total phosphorus budget for the mid-1970's. *J. Water Pollut. Control Fed.* 51:2524-2533.

100. Chapra, S.C.\*<sup>†</sup>, and Dobson, H.F.H.<sup>†</sup> 1981. Quantification of the lake trophic typologies of Naumann (surface quality) and Thienemann (oxygen) with special reference to the Great Lakes. *J. Great Lakes Res.* 7:182-193.
101. Chapra, S.C.\*<sup>†</sup>, Scavia, D., Lang, G.A., and Reckhow, K.H.<sup>†</sup> 1983. Nutrient food chain models. In *Engineering approaches for lake management, vol. 2: Mechanistic modeling*, ed. S.C. Chapra and K.H. Reckhow, pp. 243-351. Boston: Butterworth Publishers.
102. Chapra, S.C.\*<sup>†</sup>, and Reckhow, K.H.<sup>†</sup>, ed. 1983. *Engineering approaches for lake management, vol. 2: Mechanistic modeling*. Boston: Butterworth Publishers.
103. Cline, J.T.<sup>†</sup>, and Chambers, R.L.\*<sup>†</sup> 1977. Spatial and temporal distribution of heavy metals in lake sediments near Sleeping Bear Point, Michigan. *J. Sediment. Petrol.* 47:716-727.
104. Croley, T.E., II. 1980. *Hydrologic and hydraulic calculation in BASIC for small computers*. Iowa City, IA: The University of Iowa, Iowa Institute of Hydraulic Research.
105. Croley, T.E., II. 1980. *Synthetic-hydrograph computations on small programmable calculators*. Iowa City, IA: The University of Iowa, Iowa Institute of Hydraulic Research.
106. Croley, T.E., II. 1982. *Great Lakes Basins runoff modeling*. NOAA Technical Memorandum ERL GLERL-39.
107. Croley, T.E., II. 1982. A tank-cascade runoff model for large forested basins. In *Proceedings, Canadian hydrology symposium '82: Hydrological processes of forested areas*, pp. 419-440. Ottawa, ON: Associate Committee on Hydrology, National Research Council Canada.
108. Croley, T.E., II. 1982. Unsteady overland sedimentation. *J. Hydrol.* 56:325-346.
109. Croley, T.E., II. 1983. Great Lakes basins (U.S.A.-Canada) runoff modeling. *J. Hydrol.* 64:135-158.
110. Croley, T.E., II. 1983. Lake Ontario Basin (U.S.A.-Canada) runoff modeling. *J. Hydrol.* 66:101-121.
111. Croley, T.E., II. 1983. *Lake Superior Basin runoff modeling*. GLERL Open File Report.
112. Croley, T.E., II. 1983. Sediment dynamics in unsteady nonprismatic rills. In *Proceedings, conference on frontiers in hydraulic engineering*, ed. H.T. Shen, pp. 127-132. New York: American Society of Civil Engineers.
113. Croley, T.E., II, and Hunt, B.<sup>†</sup> 1981. Multiple-valued and non-convergent solutions in kinematic cascade models. *J. Hydrol.* 49:121-138.

114. Croley, T.E., II, Giaquinta, A.R.<sup>†</sup>, and Woodhouse, R.A.<sup>†</sup> 1981. River thermal standard costs in the upper midwest. *J. Energy Div.*, ASCE 107:65-77.
115. Croley, T.E., II, Carvey, D.G.<sup>†</sup>, and Robb, J.G.<sup>†</sup> 1982. Watershed evaluation and research system application. In *Applied modeling in catchment hydrology*, ed. V. P. Singh, pp. 229-258. Littleton, CO: Water Resources Publications.
116. Croley, T.E., II, and Hartmann, H.C. 1983. *Lake Ontario Basin runoff modeling*. NOAA Technical Memorandum ERL GLERL-43.
117. Croley, T.E., II, and Hartmann, H.C. 1984. *Lake Superior Basin runoff modeling*. NOAA Technical Memorandum ERL GLERL-50.
118. Croley, T.E., II, and Foster, G.R.<sup>†</sup> 1984. Unsteady sedimentation in nonuniform rills. *J. Hydrol.* 70:101-122.
119. Croley, T.E., II, and Hartmann, H.C. 1985. Resolving Thiessen polygons. *J. Hydrol.* 76:363-379.
120. Cutchin, D.L.<sup>†</sup>, and Rao, D.B.\* 1976. *Baroclinic and barotropic edge waves on a continental shelf*. Special Report No. 30 prepared by the Department of Energetics and Center for Great Lakes Studies, the University of Wisconsin-Milwaukee.
121. Danek, L.J.\*<sup>,</sup> and Saylor, J.H. 1975. *Saginaw Bay water circulation*. NOAA Technical Report ERL 359-GLERL 6.
122. Danek, L.J.\*<sup>,</sup> and Saylor, J.H. 1977. Measurement of the summer currents in Saginaw Bay, Michigan. *J. Great Lakes Res.* 3:65-71.
123. Dannelongue, H.H.<sup>†</sup>, Meadows, G.A.<sup>†</sup>, and Pickett, R.L.\* 1981. The growth and decay of nearshore circulation. In *Proceedings of mechanics of oil slicks conference*, pp. 107-120. Paris, France: International Association for Hydraulic Research.
124. Derecki, J.A. 1975. *Evaporation from Lake Erie*. NOAA Technical Report ERL 342-GLERL 3.
125. Derecki, J.A. 1976. Heat storage and advection in Lake Erie. *Water Resour. Res.* 12:1144-1150.
126. Derecki, J.A. 1976. Hydrometeorology: Climate and hydrology of the Great Lakes. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 71-104. Ann Arbor: Great Lakes Basin Commission.
127. Derecki, J.A. 1976. Lake Erie terrestrial radiation. *Water Resour. Res.* 12:979-984.
128. Derecki, J.A. 1976. Multiple estimates of Lake Erie evaporation. *J. Great Lakes Res.* 2:124-149.

129. Derecki, J.A. 1978. *Description of the method used by the Great Lakes Environmental Research Laboratory to determine flows in the St. Clair and Detroit Rivers for the River Flow Subcommittee.* GLERL Open File Report.
130. Derecki, J.A. 1978. *Evaporation from Lake St. Clair.* NOAA Technical Memorandum ERL GLERL-23.
131. Derecki, J.A. 1979. Note on estimates of Lake St. Clair evaporation. *J. Great Lakes Res.* 5:216-220.
132. Derecki, J.A. 1980. *Evaporation from Lake Superior.* NOAA Technical Memorandum ERL GLERL-29.
133. Derecki, J.A. 1981. Operational estimates of Lake Superior evaporation based on IFYGL findings. *Water Resour. Res.* 17:1453-1462.
134. Derecki, J.A. 1981. Stability effects on Great Lakes evaporation. *J. Great Lakes Res.* 7:357-362.
135. Derecki, J.A. 1982. *Effect of channel changes in the St. Clair River since 1900.* NOAA Technical Memorandum ERL GLERL-40.
136. Derecki, J.A. 1982. *Effect of the 1981 Fort Gratiot gage modifications on the hydraulic regime of the St. Clair River.* GLERL Open File Report.
137. Derecki, J.A. 1983. *Travel times in the Great Lakes connecting channels.* GLERL Open File Report.
138. Derecki, J.A. 1984. *Detroit River physical and hydraulic characteristics.* GLERL Open File Report.
139. Derecki, J.A. 1984. *St. Clair River physical and hydraulic characteristics.* GLERL Open File Report.
140. Derecki, J.A. 1984. *St. Marys River physical and hydraulic characteristics.* GLERL Open File Report.
141. Derecki, J.A., and Potok, A.J.\* 1978. *Hydrometeorological data system for the Great Lakes, appendix D: Evaluation of runoff simulation for southeast Michigan with SSARR watershed model.* Chicago: U.S. Army Corps of Engineers, North Central District.
142. Derecki, J.A., and Potok, A.J.\* 1979. Regional runoff simulation for southeast Michigan. *Water Resour. Bull.* 15:1418-1429.
143. Derecki, J.A., and Kelley, R.N. 1981. *Improved St. Clair River dynamic flow models and comparison analysis.* NOAA Technical Memorandum ERL GLERL-34.

144. DeWitt, B.H.<sup>†</sup>, Kahlbaum, D.F.<sup>†</sup>, Baker, D.G.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, Keyes, F.A.<sup>†</sup>, Boyce, D.E.<sup>†</sup>, Quinn, F.H., Assel, R.A., Baker-Blocker, A.<sup>†</sup>, and Kurdziel, K.M.<sup>†</sup> 1980. *Summary of Great Lakes weather and ice conditions, winter 1978-79.* NOAA Technical Memorandum ERL GLERL-31.
145. Donovan, M.<sup>†</sup>, Job, C.A.<sup>†</sup>, and Sonzogni, W.C.\* 1981. The Milwaukee pollution case--Implications for water resources planning. *Water Resour. Bull.* 17:23-28.
146. Doughty, B.C.\*<sup>†</sup>, Kessenich, T.A.\*<sup>†</sup>, and Liu, P.C. 1978. *Surface wave data recorded in Lake Michigan during 1973 and 1975-77.* NOAA Technical Memorandum ERL GLERL-19.
147. Eadie, B.J. 1979. Effects of increased atmospheric CO<sub>2</sub> on the Great Lakes. In *Carbon dioxide effects research and assessment program: Workshop on environmental and societal consequences of a possible CO<sub>2</sub> induced climate change*, pp. 237-250. Washington, DC: U.S. Department of Energy.
148. Eadie, B.J. 1981. *An equilibrium model for the partitioning of synthetic organic compounds: Formulation and calibration.* NOAA Technical Memorandum ERL GLERL-35.
149. Eadie, B.J. 1984. Distribution of polycyclic aromatic hydrocarbons in the Great Lakes. In *Toxic contaminants in the Great Lakes*, ed. J.O. Nriagu and M.S. Simmons, pp. 195-211. Wiley Series in Environmental Science and Technology, ed. J.O. Nriagu, vol. 14. New York: John Wiley and Sons.
150. Eadie, B.J., and Robertson, A.\* 1976. An IFYGL carbon budget for Lake Ontario. *J. Great Lakes Res.* 2:307-323.
151. Eadie, B.J., Chambers, R.L.\*<sup>†</sup>, Malczyk, J.M., and Langston, A.L.\* 1978. *The effect of the Grand River spring runoff on Lake Michigan.* International Joint Commission Technical Report.
152. Eadie, B.J., Jeffrey, L.M.<sup>†</sup>, and Sackett, W.M.<sup>†</sup> 1978. Some observations on the stable carbon isotope composition of dissolved and particulate organic carbon in the marine environment. *Geochim. Cosmochim. Acta* 42:1265-1269.
153. Eadie, B.J., Bell, G.L., Chambers, R.L.\*<sup>†</sup>, Malczyk, J.M., Stankevich, E.A.\*<sup>†</sup>, and Langston, A.L.\* 1980. *The effects of dredging on the chemical characteristics of the Grand River.* NOAA Data Report ERL GLERL-14.
154. Eadie, B.J., and Chambers, R.L.\*<sup>†</sup> 1980. Toxic substances flux program in Lake Michigan. *Coast. Ocean Pollut. Assess. News* 1:7.
155. Eadie, B.J., McCormick, M.J., Rice, C.<sup>†</sup>, Levon, P.\*<sup>†</sup>, and Simmons, M.<sup>†</sup> 1981. *An equilibrium model for the partitioning of synthetic organic compounds incorporating first-order decomposition.* NOAA Technical Memorandum ERL GLERL-37.

156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982. Bioconcentrations of PAH by some benthic organisms. In *Polynuclear aromatic hydrocarbons: Seventh international symposium on formation, metabolism, and measurement*, ed. M.W. Cooke and A.J. Dennis, pp. 437-449. Columbus, OH: Battelle Press.
157. Eadie, B.J., Faust, W., Gardner, W.S., and Nalepa, T.F. 1982. Polycyclic aromatic hydrocarbons in sediments and associated benthos in Lake Erie. *Chemosphere* 11:185-191.
158. Eadie, B.J., Landrum, P.F., and Faust, W. 1982. Polycyclic aromatic hydrocarbons in sediments, pore water, and the amphipod *Pontoporeia hoyi* from Lake Michigan. *Chemosphere* 11:847-858.
159. Eadie, B.J., Faust, W., and Landrum, P.F. 1982. Polycyclic aromatic hydrocarbons in the benthic organisms of the Great Lakes. *Coast. Ocean Pollut. Assess. News* 2:4.
160. Eadie, B.J., Rice, C.P.<sup>†</sup>, and Frez, W.A. 1982. The role of the benthic boundary layer in the cycling of PCB's in the Great Lakes. In *Physical behavior of PCB's in the Great Lakes*, ed. D. MacKay, pp. 213-229. Ann Arbor: Ann Arbor Science.
161. Eadie, B.J., Nihart, S.\*<sup>,</sup>, and Robbins, J.A. 1982. Study of early dia-gensis of compounds in Great Lakes sediments is underway. *Coast. Oceanogr. Climatol. News* 4:43.
162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\*<sup>,</sup>, Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983. *The cycling of toxic organics in the Great Lakes: A 3-year status report*. NOAA Technical Memorandum ERL GLERL-45.
163. Eadie, B.J., Chambers, R.L.\*<sup>,</sup>, Gardner, W.S., and Bell, G.L. 1984. Sediment trap studies in Lake Michigan: Resuspension and chemical fluxes in the southern basin. *J. Great Lakes Res.* 10:307-321.
164. Eadie, B.J., Faust, W.R., Landrum, P.F., and Morehead, N.R. 1985. Factors affecting bioconcentration of PAH by the dominant benthic organisms of the Great Lakes. In *Polynuclear aromatic hydrocarbons: Eighth international symposium on mechanisms, methods, and metabolism*, ed. M.W. Cooke and A.J. Dennis, pp. 799-812. Columbus, OH: Battelle Press.
165. Edgington, D.N.<sup>†</sup>, and Robbins, J.A. 1983. Patterns of deposition of natural and fallout radionuclides in the sediments of Lake Michigan and their relation to limnological processes. In *Environmental biochemistry*, ed. J.O. Nriagu, pp. 705-729. Ann Arbor: Ann Arbor Science.
166. Fahnenstiel, G.L., Schelske, C.L.<sup>†</sup>, and Moll, R.A.<sup>†</sup> 1984. In situ quantum efficiency of Lake Superior phytoplankton. *J. Great Lakes Res.* 10:399-406.

167. Fahnensiel, G.L., Scavia, D., and Schelske, C.L.<sup>†</sup> 1984. Nutrient-light interactions in the Lake Michigan subsurface chlorophyll layer. *Verh. Internat. Verein. Limnol.* 22:440-444.
168. Fraser, A.S.<sup>†</sup>, and Robertson, A.\* 1981. Materials balance. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 341-352. Ann Arbor: Great Lakes Environmental Research Laboratory.
169. Gannon, J.E.<sup>†</sup>, and Robertson, A.\* 1978. Development of checklists on Great Lakes biota. *J. Great Lakes Res.* 4:104-105.
170. Gardner, W.S., and Eadie, B.J. 1980. Chemical factors controlling phosphorus cycling in lakes. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 13-34. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
171. Gardner, W.S., Eadie, B.J., and Miller, W.H.<sup>†</sup> 1980. Microtechnique to remove particles from high performance liquid chromatographic samples. *J. Liq. Chromatogr.* 3:1585-1592.
172. Gardner, W.S., and Miller, W.H.<sup>†</sup> 1980. Reverse-phase liquid chromatographic analysis of amino acids after reaction with *o*-phthalaldehyde. *Anal. Biochem.* 101:61-65.
173. Gardner, W.S., Miller, W.H.<sup>†</sup>, and Imlay, M.J.<sup>†</sup> 1981. Free amino acids in mantle tissues of the bivalve *Amblema plicata*: Possible relation to environmental stress. *Bull. Environ. Contam. Toxicol.* 26:157-162.
174. Gardner, W.S., and Miller, W.H.<sup>†</sup> 1981. Intracellular composition and net release rates of free amino acids in *Daphnia magna*. *Can. J. Fish. Aquat. Sci.* 38:157-162.
175. Gardner, W.S., and Scavia, D. 1981. Kinetic examination of nitrogen release by zooplankters. *Limnol. Oceanogr.* 26:801-810.
176. Gardner, W.S., Nalepa, T.F., Quigley, M.A., and Malczyk, J.M. 1981. Release of phosphorus by certain benthic invertebrates. *Can. J. Fish. Aquat. Sci.* 38:978-981.
177. Gardner, W.S., Landrum, P.F., and Yates, D.A.<sup>†</sup> 1982. Fractionation of metal forms in natural waters by size exclusion chromatography with inductively coupled argon plasma detection. *Anal. Chem.* 54:1196-1198.
178. Gardner, W.S., and Vanderploeg, H.A. 1982. Microsample-filtering device for liquid chromatography or flow injection analysis. *Anal. Chem.* 54:2129-2130.
179. Gardner, W.S., and Paffenhofer, G.A.<sup>†</sup> 1982. Nitrogen regeneration by the subtropical marine copepod *Eucalanus pileatus*. *J. Plankton Res.* 4:725-734.

180. Gardner, W.S., and Landrum, P.F. 1983. Characterization of ambient levels of ultraviolet-absorbing dissolved humic materials in natural waters by aqueous liquid chromatography. In *Aquatic and terrestrial humic materials*, ed. R.F. Christman and E.T. Gjessing, pp. 203-217. Ann Arbor: Ann Arbor Science.
181. Gardner, W.S., and Malczyk, J.M. 1983. Discrete injection segmented flow analysis of nutrients in small-volume water samples. *Anal. Chem.* 55:1645-1647.
182. Gardner, W.S., Nalepa, T.F., Slavens, D.R.\*<sup>†</sup>, and Laird, G.A. 1983. Patterns and rates of nitrogen release by benthic Chironomidae and Oligochaeta. *Can. J. Fish. Aquat. Sci.* 40:259-266.
183. Gaskill, D.W.\*<sup>†</sup> 1981. *Homogeneity analysis of seasonal mean temperature series at 25 stations around the Great Lakes*. NOAA Data Report ERL GLERL-18.
184. Gehrs, C.W.<sup>†</sup>, and Robertson, A.\*<sup>†</sup> 1975. Use of life tables in analyzing the dynamics of copepod populations. *Ecology* 56:665-672.
185. Gerould, S.<sup>†</sup>, Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1983. Anthracene bioconcentration and biotransformation in chironomids: Effects of temperature and concentration. *Environ. Pollut.* 30:175-188.
186. Giaquinta, A.R.<sup>†</sup>, and Croley, T.E., II. 1981. Impact of thermal standards on power plant water consumption. *Water Resour. Bull.* 17:423-430.
187. Great Lakes Environmental Research Laboratory.. 1975. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
188. Great Lakes Environmental Research Laboratory. 1975. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
189. Great Lakes Environmental Research Laboratory. 1976. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
190. Great Lakes Environmental Research Laboratory. 1976. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
191. Great Lakes Environmental Research Laboratory. 1977. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
192. Great Lakes Environmental Research Laboratory. 1977. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.

193. Great Lakes Environmental Research Laboratory. 1978. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
194. Great Lakes Environmental Research Laboratory. 1978. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
195. Great Lakes Environmental Research Laboratory. 1979. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
196. Great Lakes Environmental Research Laboratory. 1979. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
197. Great Lakes Environmental Research Laboratory. 1980. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
198. Great Lakes Environmental Research Laboratory. 1980. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
199. Great Lakes Environmental Research Laboratory. 1981. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
200. Great Lakes Environmental Research Laboratory. 1981. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
201. Great Lakes Environmental Research Laboratory. 1982. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
202. Great Lakes Environmental Research Laboratory. 1982. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
203. Great Lakes Environmental Research Laboratory. 1983. *Annual report for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
204. Great Lakes Environmental Research Laboratory. 1983. *Publications by the staff of the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
205. Great Lakes Environmental Research Laboratory. 1983. *Technical plan for the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.

206. Great Lakes Environmental Research Laboratory. 1984. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
207. Great Lakes Environmental Research Laboratory. 1984. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
208. Great Lakes Environmental Research Laboratory. 1985. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
209. Great Lakes Environmental Research Laboratory and the University of Michigan. 1980. *First semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
210. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *First annual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
211. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *Second annual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
212. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *Second semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
213. Great Lakes Environmental Research Laboratory, the University of Michigan, and the University of Minnesota. 1982. *Third semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
214. Great Lakes Environmental Research Laboratory, the University of Michigan, the University of Minnesota, Michigan State University, Argonne National Laboratory, and Oak Ridge National Laboratory. 1983. *Fourth semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
215. Greene, G.M.\* 1981. Breakup of ice cover occurs early on St. Lawrence River in 1981. *Coast. Oceanogr. Climatol. News* 4:2-3.

216. Greene, G.M.\* 1981. *Simulation of ice-cover growth and decay in one dimension on the upper St. Lawrence River.* NOAA Technical Memorandum ERL GLERL-36.
217. Greene, G.M.\* 1981. *Simulation of ice-cover growth and thermal decay on the upper St. Lawrence River.* Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
218. Greene, G.M.\* 1983. *Forecasting ice-cover freeze-up, growth, and breakup on the St. Marys River.* NOAA Technical Memorandum ERL GLERL-47.
219. Greene, G.M.\* 1984. *Freeze-up, breakup, and date of maximum ice thickness for the St. Lawrence River--1971-81.* NOAA Data Report ERL GLERL-27.
220. Greene, G.M.\* 1984. Sub-committee report: Summary of the discussion on ice characteristics. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 57-59. Ann Arbor: Great Lakes Environmental Research Laboratory.
221. Greene, G.M.\* and Nelson, F.† 1983. Performance of a frost hollow as a hemispherical thermal radiometer. *Arch. Met. Geoph. Biocl., Ser. B* 32:263-278.
222. Grumbkatt, J.L.\* 1976. *Great Lakes water temperatures, 1966-75.* NOAA Technical Memorandum ERL GLERL-11-1.
223. Grumbkatt, J.L.\* 1976. *Great Lakes water temperatures, 1966-75.* NOAA Technical Memorandum ERL GLERL-11-2 (Full Microfiche Edition).
224. Grumbkatt, J.L.\* 1976. IFYGL--An unusually cold year. *IFYGL Bull.* 18:59-62.
225. Grumbkatt, J.L.\* 1977. *Heat advection in Lake Ontario, 1972-73.* GLERL Open File Report.
226. Guerra, B.E.\* 1983. *Wind erosion as a source of water pollution--A brief update.* GLERL Open File Report.
227. Haddock, J.D.†, Landrum, P.F., and Giesy, J.P.† 1983. Extraction efficiency of anthracene from sediments. *Anal. Chem.* 55:1197-1200.
228. Hagman, B.B.\* 1976. *An analysis of Great Lakes ice cover from satellite imagery.* NOAA Technical Memorandum ERL GLERL-9.
229. Hagman, B.B.\* 1976. *On the use of microwave radiation for Great Lakes ice surveillance.* NOAA Technical Memorandum ERL GLERL-13.
230. Hagman, J.C.\* 1977. *Environmental information requirements: GLERL user study.* GLERL Open File Report.
231. Hawley, N. 1982. Reply. *Sedimentology* 29:906-907.

232. Hawley, N. 1983. Intertidal sedimentary structures on macrotidal beaches. *J. Sediment. Petrol.* 52:785-796.
233. Hawley, N. 1983. *Lake Michigan suspended sediment characteristics at Grand Haven, Michigan, 1979*. NOAA Data Report ERL GLERL-23.
234. Hawley, N. 1983. *A numerical model of cohesive suspended sediment dynamics*. NOAA Technical Memorandum ERL GLERL-42.
235. Hawley, N., Chambers, R.L.\* and Bell, G.L. 1983. *Grain-size distribution in Lake Michigan, 1977-81*. NOAA Data Report ERL GLERL-21.
236. Heidtke, T.M.†, Sonzogni, W.C.\* and Botts, L.† 1981. *Great Lakes environmental planning study: Summary report*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
237. Henderson-Sellers, B.†, McCormick, M.J., and Scavia, D. 1983. A comparison of the formulation for eddy diffusion in two one-dimensional stratification models. *Appl. Math. Modeling* 7:212-215.
238. Hinkel, K.M.\* 1983. *Ice-cover growth rates at nearshore locations in the Great Lakes*. NOAA Technical Memorandum ERL GLERL-44.
239. Hollan, E.†, Rao, D.B.\* and Bauerle, E.† 1980. Free surface oscillations in Lake Constance with an interpretation of the 'Wonder of the Rising Water' at Konstanz in 1549. *Arch. Met. Geoph. Biokl.*, Ser. A 29:301-325.
240. Hore, R.C.†, Pinsak, A.P.\* and Vallery, D.J.† 1981. Annex F--Consumptive water use. In *Report to the International Joint Commission by the International Great Lakes Diversions and Consumptive Uses Study Board*. Detroit, MI: U.S. Department of the Army, Corps of Engineers.
241. Huang, J.C.K.\* 1974. Ocean/atmosphere dynamically coupled model for climatic study. In *Monograph IV*, pp. (6-210)-(6-216). Washington, DC: Department of Transportation, Climatic Impact Assessment Program.
242. Huang, J.C.K.\* 1975. Effective cloudiness derived from ocean buoy data. *J. Appl. Meteorol.* 14:240-246.
243. Huang, J.C.K.\* 1977. *A general circulation model for lakes*. NOAA Technical Memorandum ERL GLERL-16.
244. Huang, J.C.K.\* 1977. Simulation study of the north Pacific Ocean. In *Symposium on modeling of transport mechanisms in oceans and lakes*, pp. 21-34. Ottawa, ON: Marine Sciences Directorate.
245. Huang, J.C.K.\* 1978. Numerical simulation studies of oceanic anomalies in the north Pacific Basin. I: The ocean model and the long-term mean state. *J. Phys. Oceanogr.* 8:755-778.

246. Huang, J.C.K.\* 1978. Response of the NCAR general circulation model to north Pacific sea surface temperature anomalies. *J. Atmos. Sci.* 35:1164-1179.
247. Huang, J.C.K.\* 1979. Numerical case studies for oceanic thermal anomalies with a dynamic model. *J. Geophys. Res.* 84:5717-5726.
248. Huang, J.C.K.\* 1979. Numerical simulation studies for oceanic anomalies in the north Pacific Basin. II: Seasonally varying motions and structures. *J. Phys. Oceanogr.* 9:37-56.
249. Huang, J.C.K.\* , and Sloss, P.W.\* 1981. Simulation and verification of Lake Ontario's mean state. *J. Phys. Oceanogr.* 11:1548-1566.
250. Huang, J.C.K.\* , and Saylor, J.H. 1982. Vorticity waves in a shallow basin. *Dyn. Atmos. Oceans* 6:177-196.
251. Hunt, G.W.†, and Robertson, A.\* 1977. The effect of temperature on reproduction of cyclops vernalis fischer (copepoda, cyclopoida). *Crustaceana* 32:169-177.
252. Hutter, K.†, and Schwab, D.J. 1982. *Internal report on baroclinic channel models*. Report prepared by Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie.
253. Hutter, K.†, Salvadè, G.†, and Schwab, D.J. 1983. On internal wave dynamics in the northern basin of the Lake of Lugano. *Geophys. Astrophys. Fluid Dyn.* 27:299-336.
254. International Joint Commission, International Great Lakes Technical Information Network Board, Hydrology Committee. 1983. *Great Lakes hydrometeorological station directory*. NOAA Data Report ERL GLERL-22.
255. Ischinger, L.S.†, and Nalepa, T.F. 1975. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 47:1520-1538.
256. Ischinger, L.S.†, and Nalepa, T.F. 1976. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 48:1318-1335.
257. Jenkins, C.F.\* 1975. The International Field Year for the Great Lakes. *Great Lakes Basin Comm. Commun.* 6:5-6.
258. Jenkins, C.F.\* 1978. The joint Canadian-U.S. Great Lakes research project, IFYGL. *Ambio* 7:98-105.
259. Jenkins, C.F.\* , ed. 1980. *IFYGL atlas--Lake Ontario summary data*. Ann Arbor: Great Lakes Environmental Research Laboratory.
260. Kadlec, R.H.†, and Robbins, J.A. 1984. Sedimentation and sediment accretion in Michigan coastal wetlands (U.S.A.). *Chem. Geol.* 44:119-150.

261. Kelley, R.N. 1976. *Lake St. Clair beginning-of-month water levels and monthly rates of change of storage.* NOAA Technical Report ERL 372-GLERL 13.
262. Kelley, R.N. 1982. *Comparison of Great Lakes consumptive use impacts on water levels under Lake Superior regulation plans "1977" and "55 modification of the 1949 rule."* GLERL Open File Report.
263. Kohberger, R.C.<sup>†</sup>, Scavia, D., and Wilkinson, J.W.<sup>†</sup> 1978. A method for parameter sensitivity analysis in differential equation models. *Water Resour. Res.* 14:25-29.
264. Krezoski, J.R.<sup>†</sup>, and Robbins, J.A. 1981. Radiotracer studies of interactions between sediments and freshwater macrobenthos. *Verh. Internat. Verein. Limnol.* 21:382.
265. Krezoski, J.R.<sup>†</sup>, Robbins, J.A., and White, D.S.<sup>†</sup> 1984. Dual radiotracer measurement of zoobenthos-mediated solute and particle transport in freshwater sediments. *J. Geophys. Res.* 89:7937-7947.
266. Lake Hydrology Group. 1976. *Lake Ontario IFYGL ice studies data report.* GLERL Open File Report.
267. Landrum, P.F. 1982. The effect of co-contaminants on the bioavailability of polycyclic aromatic hydrocarbons to *Pontoporeia hoyi*. In *Polynuclear aromatic hydrocarbons: Seventh international symposium on formation, metabolism, and measurement*, ed. M.W. Cooke and A.J. Dennis, pp. 731-743. Columbus, OH: Battelle Press.
268. Landrum, P.F. 1982. Uptake, depuration, and biotransformation of anthracene by the scud *Pontoporeia hoyi*. *Chemosphere* 11:1049-1057.
269. Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1981. Anomalous breakthrough of benzo(a)pyrene during concentration with XAD-4 resin from aqueous solutions. In *Advances in the identification and analysis of organic pollutants in water*, ed. L.H. Keith, pp. 345-355. Ann Arbor: Ann Arbor Science.
270. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. Comparison of the disposition of several nitrogen-containing compounds in the sea urchin and other marine invertebrates. *Xenobiotica* 11:351-361.
271. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. The disposition of p-nitroanisole by the sea urchin, *Strongylocentrotus purpuratus*. I. Kinetics. *Ecotoxicol. Environ. Safety* 5:225-239.
272. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. The disposition of p-nitroanisole by the sea urchin, *Strongylocentrotus purpuratus*. II. Biotransformation and bioconcentration. *Ecotoxicol. Environ. Safety* 5:240-254.
273. Landrum, P.F., and Scavia, D. 1983. Influence of sediment on anthracene uptake, depuration, and biotransformation by the amphipod *Hyalella azteca*. *Can. J. Fish. Aquat. Sci.* 40:298-305.

274. Landrum, P.F., Bartell, S.M.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Leversee, G.J.<sup>†</sup>, Bowling, J.W.<sup>†</sup>, Haddock, J.<sup>†</sup>, LaGory, K.<sup>†</sup>, Gerould, S.<sup>†</sup>, and Bruno, M.<sup>†</sup> 1984. Fate of anthracene in an artificial stream: A case study. *Ecotoxicol. Environ. Saf.* 8:183-201.
275. Landrum, P.F., Nihart, S.R.\* Eadie, B.J., and Gardner, W.S. 1984. Reverse-phase separation method for determining pollutant binding to Aldrich humic acid and dissolved organic carbon of natural waters. *Environ. Sci. Technol.* 18:187-192.
276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985. Role of sediment in the bioaccumulation of benzo(a)pyrene by the amphipod *Pontoporeia hoyi*. In *Polynuclear aromatic hydrocarbons: Eighth international symposium on mechanisms, methods, and metabolism*, ed. M.W. Cooke and A.J. Dennis, pp. 799-812. Columbus, OH: Battelle Press.
277. Lang, G.A. 1983. The Mineral River--A unique tributary chloride load to Lake Superior. *J. Great Lakes Res.* 9:584-587.
278. Lang, G.A. 1984. *Update of U.S. Great Lakes tributary loadings, 1979-80.* NOAA Technical Memorandum ERL GLERL-54.
279. Lang, G.A., and Chapra, S.C.\* 1982. *Documentation of SED--A sediment/water column contaminant model.* NOAA Technical Memorandum ERL GLERL-41.
280. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982. Microscale nutrient patches produced by zooplankton. *Proc. Natl. Acad. Sci.* 79:5001-5005.
281. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982. Microscale patchiness of nutrients in plankton communities. *Science* 216:729-730.
282. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1984. Measuring the ecological significance of microscale nutrient patches. *Limnol. Oceanogr.* 29:214-216.
283. Leshkevich, G.A. 1975. *Lake Superior bathythermograph data.* NOAA Technical Memorandum ERL GLERL-3.
284. Leshkevich, G.A. 1976. *Great Lakes ice cover, winter 1974-75.* NOAA Technical Report ERL 370-GLERL 11.
285. Leshkevich, G.A. 1977. *Great Lakes ice cover, winter 1975-76.* NOAA Technical Memorandum ERL GLERL-12.
286. Leshkevich, G.A. 1981. *Categorization of northern Green Bay ice cover using LANDSAT-1 digital data--A case study.* NOAA Technical Memorandum ERL GLERL-33.
287. Leshkevich, G.A. 1981. *Lake Superior ice cycle--1979 (16-mm film).* Ann Arbor: Great Lakes Environmental Research Laboratory. 12 min.

288. Leversee, G.J.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Landrum, P.F., Bartell, S.<sup>†</sup>, Gerould, S.<sup>†</sup>, Bruno, M.<sup>†</sup>, Spacie, A.<sup>†</sup>, Bonling, J.<sup>†</sup>, Haddock, J.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1981. Disposition of benzo(a)pyrene in aquatic system components: Periphyton, chironomids, daphnia, fish. In *Chemical analysis and biological fate: Polynuclear aromatic hydrocarbons*, ed. M. Cooke and A.J. Dennis, pp. 357-366. Columbus, OH: Battelle Press.
289. Leversee, G.J.<sup>†</sup>, Landrum, P.F., Giesy, J.P.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1983. Humic acids reduce bioaccumulation of some polycyclic aromatic hydrocarbons. *Can. J. Fish. Aquat. Sci.* 40:63-69.
290. Liu, P.C. 1974. Duration-limited wave spectra in Lake Ontario during the 1972 Hurricane Agnes (IFYGL). In *Proceedings, 17th conference on Great Lakes research*, pp. 435-444. Ann Arbor: International Association for Great Lakes Research.
291. Liu, P.C. 1976. An evaluation of parameters for the theoretical distribution of periods and amplitudes of sea waves. *J. Geophys. Res.* 81:3161-3162.
292. Liu, P.C. 1977. Applications of empirical fetch-limited spectral formulas to Great Lakes waves. In *Proceedings, 15th coastal engineering conference*, pp. 113-128. New York: American Society of Civil Engineers.
293. Liu, P.C. 1977. A summary of IFYGL surface wave studies. *IFYGL Bull.* 21:44-48.
294. Liu, P.C. 1977. Temporal spectral growth and nonlinear characteristics of wind waves in Lake Ontario. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
295. Liu, P.C. 1979. *Spectral growth and nonlinear characteristics of wind waves in Lake Ontario*. NOAA Technical Report ERL 408-GLERL 14.
296. Liu, P.C. 1983. An iteration problem: Problem 83-9. *SIAM Rev.* 25:268.
297. Liu, P.C. 1983. A representation for the frequency spectrum of wind-generated waves. *Ocean Eng.* 10:429-441.
298. Liu, P.C. 1984. An iteration problem. *SIAM Rev.* 26:279.
299. Liu, P.C., and Robbins, R.J.<sup>†</sup> 1974. Wave data analysis at GLERL. In *Proceedings, international symposium on ocean wave measurements and analysis*, pp. 64-73. New York: American Society of Civil Engineers.
300. Liu, P.C., and Kessenich, T.A.\* 1975. *Surface wave data recorded in Lake Ontario during IFYGL*. NOAA Technical Memorandum ERL GLERL-2.
301. Liu, P.C., and Kessenich, T.A.\* 1976. IFYGL shipboard visual wave observations vs. wave measurements. *J. Great Lakes Res.* 2:33-42.

302. Liu, P.C., Miller, G.S., and Saylor, J.H. 1976. Water motion. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 119-149. Ann Arbor: Great Lakes Basin Commission.
303. Liu, P.C., and Green, A.W.<sup>†</sup> 1979. Higher order wave spectra. In *Proceedings, 16th coastal engineering conference*, pp. 360-371. New York: American Society of Civil Engineers.
304. Liu, P.C., and Ross, D.B.<sup>†</sup> 1980. Airborne measurements of wave growth for stable and unstable atmospheres in Lake Michigan. *J. Phys. Oceanogr.* 10:1842-1853.
305. Liu, P.C., and Doughty, B.C.\* 1980. Surface waves. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 162-199. Ann Arbor: Great Lakes Environmental Research Laboratory.
306. Liu, P.C., Schwab, D.J., and Bennett, J.R. 1984. Comparison of a two-dimensional wave prediction model with synoptic measurements in Lake Michigan. *J. Phys. Oceanogr.* 14:1514-1518.
307. Malczyk, J.M., and Eadie, B.J. 1980. *Collection, preparation, and analysis procedures employed and precision achieved in the chemical field program, 1976-79.* GLERL Open File Report.
308. McCall, P.L.<sup>†</sup>, Robbins, J.A., and Matisoff, G.<sup>†</sup> 1984.  $^{137}\text{Cs}$  and  $^{210}\text{Pb}$  transport and geochronologies in urbanized reservoirs with rapidly increasing sedimentation rates. *Chem. Geol.* 44:33-65.
309. McCormick, M.J., and Scavia, D. 1981. Calculation of vertical profiles of lake-averaged temperature and diffusivity in Lakes Ontario and Washington. *Water Resour. Res.* 17:305-310.
310. McCormick, M.J., Wharam, B.L.\*<sup>,</sup>, and Scavia, D. 1983. Comparison of phytoplankton growth constructs in the context of vertically segmented plankton models. In *Developments in environmental modeling, part 5. Analysis of ecological systems: State-of-the-art in ecological modeling*, ed. W.K. Lauenroth, G.V. Skogerboe, and M. Flug, pp. 663-668. Amsterdam, The Netherlands: Elsevier Science Publishers.
311. McCormick, M.J., and Tarapchak, S.J. 1984. Uncertainty analysis of calculated nutrient regeneration rates in Lake Michigan. *Can. J. Fish. Aquat. Sci.* 41:206-211.
312. McNaught, D.C.<sup>†</sup>, and Scavia, D. 1976. Application of model of zooplankton composition to problems of fish introductions to the Great Lakes. In *Modeling biochemical processes in aquatic ecosystems*, ed. R.P. Canale, pp. 281-304. Ann Arbor: Ann Arbor Science.

313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982. The response of the coastal boundary layer to winds and waves: Analysis of an experiment in Lake Erie. In *Proceedings, third workshop on Great Lakes coastal erosion and sedimentation*, pp. 51-54. National Research Council Canada and Associate Committee for Research on Shoreline Erosion and Sedimentation.
314. Meyers, P.A.<sup>†</sup>, Leenheer, M.J.<sup>†</sup>, Eadie, B.J., and Maule, S.J.<sup>†</sup> 1984. Organic geochemistry of suspended and settling particulate matter in Lake Michigan. *Geochim. Cosmochim. Acta* 48:443-452.
315. Miller, G.S. 1976. *Harbor and nearshore currents, Oswego Harbor, New York*. NOAA Technical Report ERL 360-GLERL 7.
316. Miller, G.S., and Saylor, J.H. 1981. Winter temperature structure in Lake Huron. *J. Great Lakes Res.* 7:201-206.
317. Monteith, T.J.<sup>†</sup>, and Sonzogni, W.C.\* 1981. *Variations in U.S. Great Lakes tributary flows and loadings*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
318. Monteith, T.J.<sup>†</sup>, Sullivan, R.A.C.<sup>†</sup>, Heidtke, T.M.<sup>†</sup>, and Sonzogni, W.C.\* 1981. *Watershed handbook: A management technique for choosing among point and nonpoint control strategies*. Report prepared for the U.S. Environmental Protection Agency by the Great Lakes Basin Commission and the Great Lakes Environmental Research Laboratory under Interagency Agreement No. AD-85-F-0-061-0.
319. Mortimer, C.H.<sup>†</sup>, Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1976. A supplementary note and figure added to paper "Free Surface Oscillations and Tides of Lakes Michigan and Superior" by C.H. Mortimer and E.J. Fee. *Phil. Trans. R. Soc. (Lond.)*, Ser. A. 281:58-60.
320. Nalepa, T.F. 1977. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 49:1206-1218.
321. Nalepa, T.F. 1978. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 50:1301-1313.
322. Nalepa, T.F. 1979. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 51:1694-1708.
323. Nalepa, T.F., and Ischinger, L.S.<sup>†</sup> 1974. *Sediment oxygen demand studies on the Androscoggin, Presumpscot, and Penobscot Rivers, Maine, May and July 1974*. Report to Region I, EPA, and State of Maine prepared by the U.S. Environmental Protection Agency, National Field Investigations Center.
324. Nalepa, T.F., and Ischinger, L.S.<sup>†</sup> 1974. *Sediment oxygen demand studies on the Chowan River, North Carolina, December 1974*. Report to State of North Carolina prepared by the U.S. Environmental Protection Agency, National Field Investigation Center.

325. Nalepa, T.F., White, D.S.<sup>†</sup>, Pringle, C.M.<sup>†</sup>, and Quigley, M.A. 1980. The biological component of phosphorus exchange and cycling in lake sediments. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 93-109. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
326. Nalepa, T.F., and Quigley, M.A. 1980. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 52:1686-1703.
327. Nalepa, T.F., and Quigley, M.A. 1980. *The macro- and meiobenthos of southeastern Lake Michigan near the mouth of the Grand River, 1976-77.* NOAA Data Report ERL GLERL-17.
328. Nalepa, T.F., and Quigley, M.A. 1981. *The macro- and meiobenthos of southeastern Lake Michigan near the mouth of the Grand River, 1978-79.* NOAA Data Report ERL GLERL-19.
329. Nalepa, T.F., and Robertson, A.\* 1981. Screen mesh size affects estimates of macro- and meiobenthos abundance and biomass in the Great Lakes. *Can. J. Fish. Aquat. Sci.* 38:1027-1034.
330. Nalepa, T.F., and Robertson, A.\* 1981. Vertical distribution of the zoobenthos in southeastern Lake Michigan with evidence of seasonal variation. *Freshwater Biol.* 11:87-96.
331. Nalepa, T.F., and Quigley, M.A. 1983. Abundance and biomass of the meiobenthos in nearshore Lake Michigan with comparisons to the macrobenthos. *J. Great Lakes Res.* 9:530-547.
332. Nalepa, T.F., Gardner, W.S., and Malczyk, J.M. 1983. Phosphorus release by three kinds of benthic invertebrates: Effects of substrate and water medium. *Can. J. Fish. Aquat. Sci.* 40:810-813.
333. National Research Council, Panel on Niagara River Ice Boom Investigations. 1983. *The Lake Erie-Niagara River ice boom: Operations and impacts.* Washington, DC: National Academy Press.
334. Norton, D.C. 1975. *Lake Ontario Basin: Overland precipitation, 1972-73.* NOAA Technical Memorandum ERL GLERL-1.
335. Norton, D.C. 1976. Upland lakes. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 351-372. Ann Arbor: Great Lakes Basin Commission.
336. Norton, D.C. 1984. *A comparison of precipitation averages as estimators of overbasin precipitation.* GLERL Open File Report.
337. Oris, J.T.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Allred, P.M.<sup>†</sup>, Grant, D.F.<sup>†</sup>, and Landrum, P.F. 1984. Photoinduced toxicity of anthracene in aquatic organisms: An environmental perspective. In *The biosphere: Problems and solutions*, ed. T.N. Veziroglu, pp. 639-658. Amsterdam, The Netherlands: Elsevier Science Publishers.

338. Paffenhofer, G.A.<sup>†</sup>, and Gardner, W.S. 1984. Ammonium release by juveniles and adult females of the subtropical marine copepod *Eucalanus pileatus*. *J. Plankton Res.* 6:505-513.
339. Park, R.A.<sup>†</sup>, O'Neill, R.U.<sup>†</sup>, Bloomfield, J.A.<sup>†</sup>, Shugart, H.H.<sup>†</sup>, Booth, R.S.<sup>†</sup>, Goldstein, R.A.<sup>†</sup>, Mankin, J.B.<sup>†</sup>, Kounce, J.F.<sup>†</sup>, Scavia, D., Adams, M.S.<sup>†</sup>, Clesceri, L.S.<sup>†</sup>, Colon, E.M.<sup>†</sup>, Dettman, E.H.<sup>†</sup>, Hoppes, J.A.<sup>†</sup>, Huff, D.D.<sup>†</sup>, Kutz, S.<sup>†</sup>, Kitchell, J.F.<sup>†</sup>, Kohberger, R.C.<sup>†</sup>, Larow, E.J.<sup>†</sup>, McNaught, D.C.<sup>†</sup>, Peterson, J.L.<sup>†</sup>, Titus, J.E.<sup>†</sup>, Weiler, P.R.<sup>†</sup>, Wilkerson, J.W.<sup>†</sup>, and Zahorak, C.S.<sup>†</sup> 1974. A generalized model for simulating lake ecosystems. *Simulation* 23:33-50.
340. Park, R.A.<sup>†</sup>, Scavia, D., and Clesceri, N.H.<sup>†</sup> 1975. CLEANER, the Lake George model. In *Ecological modeling in a management framework*, ed. C.S. Russell, pp. 49-82. Washington, DC: Resources for the Future, Inc.
341. Pickett, R.L.\* 1975. Intercomparison of Canadian and U.S. automatic data buoys. *Mar. Technol. Soc. J.* 9:20-22.
342. Pickett, R.L.\* 1975. Lake-averaged temperatures and currents in Lake Ontario in 1972. *IFYGL Bull.* 15:57-58.
343. Pickett, R.L.\* 1976. Lake Ontario circulation in November. *Limmol. Oceanogr.* 21:608-611.
344. Pickett, R.L.\* 1976. Lake Ontario temperature and current profiles. *IFYGL Bull.* 18:53-55.
345. Pickett, R.L.\* 1977. The observed winter circulation of Lake Ontario. *J. Phys. Oceanogr.* 7:152-156.
346. Pickett, R.L.\* 1979. Preliminary tests of GLERL circulation models. GLERL Open File Report.
347. Pickett, R.L.\* 1980. Great Lakes spill model operating instructions. GLERL Open File Report.
348. Pickett, R.L.\* 1980. Lake currents. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 245-276. Ann Arbor: Great Lakes Environmental Research Laboratory.
349. Pickett, R.L.\* 1980. Observed and predicted Great Lakes winter circulation. *J. Phys. Oceanogr.* 10:1140-1145.
350. Pickett, R.L.\* 1983. Great Lakes bottom currents. *Coast. Oceanogr. Climatol. News* 5:41-43.
351. Pickett, R.L.\* and Richards, F.P.\* 1974. Comparison of July currents from adjacent United States and Canadian buoys. *IFYGL Bull.* 11:107-110.

352. Pickett, R.L.\*<sup>\*</sup>, and Richards, F.P.\* 1974. Comparison of July temperature statistics from adjacent buoys at station 13. *IFYGL Bull.* 10:93-94.
353. Pickett, R.L.\*<sup>\*</sup>, and Richards, F.P.\* 1974. Editing procedures for analysis of buoy and tower data. *IFYGL Bull.* 11:105-106.
354. Pickett, R.L.\*<sup>\*</sup>, and Bermick, S.\* 1975. Comparison of airborne radiation thermometer and buoy temperature measurements. *IFYGL Bull.* 14:76.
355. Pickett, R.L.\*<sup>\*</sup>, and Richards, F.P.\* 1975. Lake Ontario mean temperatures and currents in July 1972. *J. Phys. Oceanogr.* 5:775-781.
356. Pickett, R.L.\*<sup>\*</sup>, and Eadie, B.J. 1976. Lake Ontario mean surface temperature. *IFYGL Bull.* 17:59.
357. Pickett, R.L.\*<sup>\*</sup>, and Bermick, S.\* 1976. Lake Ontario mechanical energy. *IFYGL Bull.* 18:56-58.
358. Pickett, R.L.\*<sup>\*</sup>, and Bermick, S.\* 1977. Observed resultant circulation of Lake Ontario. *Limnol. Oceanogr.* 22:1071-1076.
359. Pickett, R.L.\*<sup>\*</sup>, and Rao, D.B.\* 1977. One- and two-gyre circulations in homogeneous lakes. *IFYGL Bull.* 19:45-49.
360. Pickett, R.L.\*<sup>\*</sup>, and Dossett, D.A.\* 1979. Mirex and the circulation of Lake Ontario. *J. Phys. Oceanogr.* 9:441-445.
361. Pickett, R.L.\*<sup>\*</sup>, Campbell, J.E., Clites, A.H., and Partridge, R.M.<sup>†</sup> 1983. Satellite-tracked current drifters in Lake Michigan. *J. Great Lakes Res.* 9:106-108.
362. Pinsak, A.P.\* 1975. Federal agency programs: NOAA--Department of Commerce. In *Proceedings, recession rate workshop*, pp. 55-63. Ann Arbor: Great Lakes Basin Commission.
363. Pinsak, A.P.\* 1976. Physical characteristics. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 27-69. Ann Arbor: Great Lakes Basin Commission.
364. Pinsak, A.P.\* 1977. The role of Maumee Bay in level B planning strategies. *Great Lakes Basin Comm. Commun.* 7:5-6.
365. Pinsak, A.P.\* 1979. Major users and current consumptive use of water in the Great Lakes Basin. In *International Great Lakes diversions and consumptive uses study*, pp. 9.1-9.9. Detroit: U.S. Department of the Army, Corps of Engineers.
366. Pinsak, A.P.\*<sup>\*</sup>, ed. 1975. *Proceedings, workshop on Great Lakes environmental research initiatives*. Ann Arbor: Great Lakes Environmental Research Laboratory.

367. Pinsak, A.P.\*<sup>\*</sup>, ed. 1976. *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments.* Ann Arbor: Great Lakes Basin Commission.
368. Pinsak, A.P.\*<sup>\*</sup>, and Rogers, G.K.<sup>†</sup> 1974. Energy balance of Lake Ontario. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union*, pp. 86-101. Rockville: National Oceanic and Atmospheric Administration.
369. Pinsak, A.P.\*<sup>\*</sup>, and Meyer, T.L.\*<sup>\*</sup> 1975. *Internal report for Maumee River Basin level B study.* Ann Arbor: Great Lakes Basin Commission.
370. Pinsak, A.P.\*<sup>\*</sup>, and Meyer, T.L.\*<sup>\*</sup> 1976. *Environmental baseline for Maumee Bay.* Ann Arbor: Great Lakes Basin Commission.
371. Pinsak, A.P.\*<sup>\*</sup>, and Rodgers, G.K.<sup>†</sup> 1978. Energy balance panel. *IFYGL Bull.* 22:40-58.
372. Pinsak, A.P.\*<sup>\*</sup>, Hore, R.C.<sup>†</sup>, and Vallery, D.J.<sup>†</sup> 1981. Consumptive water use. In *Great Lakes diversions and consumptive uses: Report to the International Joint Commission by the International Great Lakes Diversions and Consumptive Uses Study Board*, Sec. 6, pp. 1-56. Detroit: U.S. Department of the Army, Corps of Engineers.
373. Pinsak, A.P.\*<sup>\*</sup>, and Rodgers, G.K.<sup>†</sup> 1981. Energy balance. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 169-197. Ann Arbor: Great Lakes Environmental Research Laboratory.
374. Potok, A.J.\*<sup>\*</sup> 1978. *Analysis of the effect on Lake Ontario water levels of maintaining year-round safe navigation depths in the St. Lawrence River.* GLERL Open File Report.
375. Potok, A.J.\*<sup>\*</sup> 1978. *Upper St. Lawrence River hydraulic transient model.* NOAA Technical Memorandum ERL GLERL-24.
376. Potok, A.J.\*<sup>\*</sup>, and Quinn, F.H. 1979. A hydraulic transient model of the upper St. Lawrence River for water resources studies. *Water Resour. Bull.* 15:1538-1555.
377. Preston, C.N.\*<sup>\*</sup> 1981. *Great Lakes precipitation, 1854-74.* GLERL Open File Report.
378. Quigley, M.A. 1981. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 53:1015-1027.
379. Quigley, M.A. 1982. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 54:868-877.
380. Quigley, M.A. 1983. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 55:833-840.
381. Quigley, M.A. 1984. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 56:774-780.

382. Quigley, M.A., and Robbins, J.A. 1984. Silica regeneration processes in nearshore southern Lake Michigan. *J. Great Lakes Res.* 10:383-392.
383. Quinn, F.H. 1975. *Lake Huron beginning-of-month water levels and monthly rates of change of storage.* NOAA Technical Report ERL 348-Glerl 4.
384. Quinn, F.H. 1975. *Lake Michigan beginning-of-month water levels and monthly rates of change of storage.* NOAA Technical Report ERL 326-Glerl 2.
385. Quinn, F.H. 1975. Lake Ontario beginning-of-month levels and changes in storage. *IFYGL Bull.* 15:59-65.
386. Quinn, F.H. 1976. Detroit River flow characteristics and their application to chemical loading estimates. *J. Great Lakes Res.* 2:71-77.
387. Quinn, F.H. 1976. *Effect of Fort Gratiot and St. Clair gage relocations on the apparent hydraulic regime of the St. Clair River.* Glerl Open File Report.
388. Quinn, F.H. 1976. *Lake St. Clair hydrologic transfer factors.* NOAA Technical Memorandum ERL GLERL-10.
389. Quinn, F.H. 1976. Pressure effects on Great Lakes vertical control. *J. Survey. and Mapp. Div.*, ASCE 102:31-37.
390. Quinn, F.H. 1977. Annual and seasonal flow variations through the Straits of Mackinac. *Water Resour. Res.* 13:137-144.
391. Quinn, F.H. 1978. *Analysis of Lake Superior regulation plan "1955 modified rule of 1949" for the period 1860-1900.* Glerl Open File Report.
392. Quinn, F.H. 1978. Hydrologic response model of the North American Great Lakes. *J. Hydrol.* 37:295-307.
393. Quinn, F.H. 1978. Lake Superior regulation effects. *Water Resour. Bull.* 14:1129-1142.
394. Quinn, F.H. 1979. *Derivation and calibration of stage-fall-discharge equations for the Great Lakes connecting channels.* Glerl Open File Report.
395. Quinn, F.H. 1979. An improved aerodynamic evaporation technique for large lakes with application to the International Field Year for the Great Lakes. *Water Resour. Res.* 15:935-940.
396. Quinn, F.H. 1979. Relative accuracy of connecting channel discharge data with application to Great Lakes studies. *J. Great Lakes Res.* 5:73-77.

397. Quinn, F.H. 1980. *Impact of increased consumptive use on Great Lakes water levels.* GLERL Open File Report.
398. Quinn, F.H. 1980. *Intercomparison analysis of Detroit River dynamic flow models.* GLERL Open File Report.
399. Quinn, F.H. 1980. Lake ice. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 139-161. Ann Arbor: Great Lakes Environmental Research Laboratory.
400. Quinn, F.H. 1980. Lake water levels and changes in storage. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 130-134. Ann Arbor: Great Lakes Environmental Research Laboratory.
401. Quinn, F.H. 1980. Note on wind stress effects on Detroit River discharges. *J. Great Lakes Res.* 6:172-175.
402. Quinn, F.H. 1980. Streamflow. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 135-138. Ann Arbor: Great Lakes Environmental Research Laboratory.
403. Quinn, F.H. 1981. *Equilibrium effects of present Great Lakes Basin consumptive use on lake levels.* GLERL Open File Report.
404. Quinn, F.H. 1981. Secular changes in annual and seasonal Great Lakes precipitation, 1854-1979, and their implications for Great Lakes water resource studies. *Water Resour. Res.* 17:1619-1624.
405. Quinn, F.H. 1982. Trends and extremes of Lake Erie water supplies. In *Proceedings, international symposium on hydrometeorology*, pp. 267-270. Minneapolis, MN: American Water Resources Association.
406. Quinn, F.H., and Derecki, J.A. 1976. *Lake Erie beginning-of-month water levels and monthly rates of change of storage.* NOAA Technical Report ERL 364-GLERL 9.
407. Quinn, F.H., and Derecki, J.A. 1976. *Lake Ontario beginning-of-month water levels and monthly rates of change of storage.* NOAA Technical Report ERL 365-GLERL 10.
408. Quinn, F.H., and Hagman, J.C.\* 1977. *Detroit and St. Clair River transient models.* NOAA Technical Memorandum ERL GLERL-14.
409. Quinn, F.H., and den Hartog, G.<sup>†</sup> 1978. Evaporation synthesis panel. *IFYGL Bull.* 22:59-68.
410. Quinn, F.H., Assel, R.A., Boyce, D.E.<sup>†</sup>, Leshkevich, G.A., Snider, C.R.<sup>†</sup>, and Weisnet, D.<sup>†</sup> 1978. *Summary of Great Lakes weather and ice conditions, winter 1976-77.* NOAA Technical Memorandum ERL GLERL-20.
411. Quinn, F.H., Derecki, J.A., and Kelley, R.N. 1979. Great Lakes beginning-of-month water levels and monthly rates of change of storage. *J. Great Lakes Res.* 5:11-17.

412. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1980. *An evaluation of the climatic impact of the Niagara ice boom relative to air and water temperature and winter severity.* NOAA Technical Memorandum ERL GLERL-30.
413. Quinn, F.H., and den Hartog, G.† 1981. Evaporation synthesis. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 221-245. Ann Arbor: Great Lakes Environmental Research Laboratory.
414. Quinn, F.H., and Croley, T.E., II. 1981. The role of precipitation climatology in hydrologic design and planning on the Laurentian Great Lakes. In *Proceedings, fourth conference on hydrometeorology*, pp. 7-11. Boston: American Meteorological Society.
415. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1982. An evaluation of the impact of the Niagara River ice boom on the air temperature regime at Buffalo, New York. *J. Appl. Meteorol.* 21:342-349.
416. Quinn, F.H., and Croley, T.E., II. 1983. Climatic basin water balance models for Great Lakes forecasting and simulation. In *Proceedings, fifth conference on hydrometeorology*, pp. 218-223. Boston: American Meteorological Society.
417. Quinn, F.H., and Kelley, R.N. 1983. *Great Lakes monthly hydrologic data.* NOAA Data Report ERL GLERL-26.
418. Rao, D.B.\* 1974. *Transient response of shallow enclosed basins using the method of normal modes.* Inland Waters Directorate, Canada Centre for Inland Waters, Scientific Series No. 38.
419. Rao, D.B.\* 1975. Numerical studies of the response of lakes to atmospheric forcing. In *Proceedings, second world congress, International Water Resources Association*, vol. III, pp. 369-375. New Delhi: International Water Resources Association.
420. Rao, D.B.\* 1977. *Calculating useful products from an oceanographic data base.* Marine Sciences Directorate Manuscript Report Series No. 45. Ottawa, ON: Marine Sciences Directorate.
421. Rao, D.B.\* 1977. Free internal oscillations in a narrow, rotating basin. In *Symposium on modeling of transport mechanisms in oceans and lakes*, pp. 391-398. Ottawa, ON: Marine Sciences Directorate.
422. Rao, D.B.\* 1978. A numerical procedure for computing resonant periods of natural water bodies. In *Proceedings, conference on tsunamis*, pp. 159-165. Ottawa, ON: Marine Sciences Directorate.
423. Rao, D.B.\* 1979. Lake Erie dynamics experiment planned. *Coast. Oceanogr. Climatol. News* 1:25.
424. Rao, D.B.\* 1979. Lake Superior heat storage study continued. *Coast. Oceanogr. Climatol. News* 1:21.

425. Rao, D.B.\*<sup>†</sup>, Mortimer, C.H.<sup>†</sup>, and Schwab, D.J. 1976. Surface normal modes of Lake Michigan: Calculations compared with spectra of observed water level fluctuations. *J. Phys. Oceanogr.* 6:575-588.
426. Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1976. Two-dimensional normal modes in arbitrary enclosed basins on a rotating earth: Application to Lakes Ontario and Superior. *Phil. Trans. R. Soc. (Lond.), Ser. A.* 281:63-96.
427. Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1981. A method of objective analysis for currents in a lake with application to Lake Ontario. *J. Phys. Oceanogr.* 11:739-750.
428. Reckhow, K.H.<sup>†</sup>, and Chapra, S.C.\*<sup>†</sup> 1979. A note on error analysis for a phosphorus retention model. *Water Resour. Res.* 15:1643-1646.
429. Reckhow, K.H.<sup>†</sup>, and Chapra, S.C.\*<sup>†</sup> 1983. *Engineering approaches for lake management, vol. 1: Data analysis and empirical modeling.* Boston: Butterworth Publishers.
430. Rice, C.P.<sup>†</sup>, Eadie, B.J., and Erstfeld, K.M.<sup>†</sup> 1982. Enrichment of PCB's in Lake Michigan surface films. *J. Great Lakes Res.* 8:265-270.
431. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1978. Introduction. *IFYGL Bull.* 22:1-3.
432. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1981. The International Field Year for the Great Lakes--An introduction. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 1-14. Ann Arbor: Great Lakes Environmental Research Laboratory.
433. Richardson, W.S.<sup>†</sup>, and Schwab, D.J. 1979. Comparison and verification of dynamical and statistical Lake Erie storm surge forecasts. NOAA Technical Memorandum NWS TDL-69.
434. Robbins, J.A. 1982. *Sediments of Saginaw Bay, Lake Huron: Elemental composition and accumulation rates.* Final report to the U.S. Environmental Protection Agency, Large Lakes Research Station, Grosse Ile, MI.
435. Robbins, J.A. 1982. Stratigraphic and dynamic effects of sediment reworking by Great Lakes zoobenthos. *Hydrobiologia* 92:611-622.
436. Robbins, J.A., and Eadie, B.J. 1982. Models of contaminants in Great Lakes. *Res. Oceanogr. Eng.* 4:3.
437. Robbins, J.A., Husby-Coupland, K.<sup>†</sup>, and White, D.S.<sup>†</sup> 1984. Precise radiotracer measurement of the rate of sediment reworking by *Stylodrilus heringianus* and the effects of variable dissolved oxygen concentrations. *J. Great Lakes Res.* 10:335-347.

438. Robertson, A.\* 1974. Status of the chemical intercomparison programs conducted during IFYGL. *IFYGL Bull.* 10:92.
439. Robertson, A.\* 1974. *U.S. IFYGL shipboard data acquisition system.* IFYGL Technical Manual Series No. 5.
440. Robertson, A.\* 1974. Zooplankton. In *Encyclopedia of environmental sciences*, pp. 700-701. New York: McGraw-Hill.
441. Robertson, A.\* 1975. A new species of Diaptomus (copepoda, calonoida) from Oklahoma and Texas. *Am. Midl. Nat.* 93:206-214.
442. Robertson, A.\* 1976. Plankton-mediated transport of energy-related pollutants. In *Proceedings, second federal conference on the Great Lakes*, ed. J.S. Marshall, pp. 351-360. Ann Arbor: Great Lakes Basin Commission.
443. Robertson, A.\* 1977. Availability of information for mapping plankton distributions in the Great Lakes. In *Mapping of the Great Lakes*, ed. D.R. Rosenberger and A. Robertson, pp. 121-126. Windsor, ON: International Joint Commission.
444. Robertson, A.\* 1982. Lakes--Coastal ecology. In *Encyclopedia of beaches and coastal environments*, ed. M.L. Schwartz, pp. 506-508. Stroudsburg, PA: Hutchinson-Ross.
445. Robertson, A.\*<sup>†</sup>, Gehrs, C.W.<sup>†</sup>, Hardin, B.D.<sup>†</sup>, and Hunt, G.W.<sup>†</sup> 1974. *Culturing and ecology of Diaptomus clavipes and Cyclops vernalis.* U.S. Environmental Protection Agency Ecological Research Series EPA-660/3-74-006.
446. Robertson, A.\*<sup>†</sup>, Elder, F.C.<sup>†</sup>, and Davies, T.T.<sup>†</sup> 1974. IFYGL chemical intercomparisons (IFYGL). In *Proceedings, 17th conference on Great Lakes research*, pp. 682-696. Ann Arbor: International Association for Great Lakes Research.
447. Robertson, A.\*<sup>†</sup>, and Eadie, B.J. 1975. A carbon budget for Lake Ontario. *Verh. Internat. Verein. Limnol.* 19:291-299.
448. Robertson, A.\*<sup>†</sup>, and Scavia, D. 1978. Ecosystem and water quality modeling during IFYGL. *Verh. Internat. Verein. Limnol.* 20:311-316.
449. Robertson, A.\*<sup>†</sup>, and Jenkins, C.F.\* 1978. The joint Canadian-American study of Lake Ontario. *Ambio* 7:107-112.
450. Robertson, A.\*<sup>†</sup>, and Scavia, D. 1979. The examination of ecosystem properties of Lake Ontario through the use of an ecological model. In *Perspectives on lake ecosystem modeling*, ed. D. Scavia and A. Robertson, pp. 281-292. Ann Arbor: Ann Arbor Science.
451. Robertson, A.\*<sup>†</sup>, and Gannon, J.E.<sup>†</sup> 1981. An annotated checklist of the free-living copepods of the Great Lakes. *J. Great Lakes Res.* 7:382-393.

452. Robertson, A.\*<sup>\*</sup>, and Scavia, D. 1984. North American Great Lakes. In *Lakes and reservoirs*, ed. F.B. Taub, pp. 135-176. Amsterdam, The Netherlands: Elsevier Science Publishers.
453. Rogers, J.C.\*<sup>\*</sup> 1976. *Evaluation of techniques for long-range forecasting of air temperature and ice formation*. NOAA Technical Memorandum ERL GLERL-8.
454. Rogers, J.C.\*<sup>\*</sup> 1976. *Long-range forecasting of maximum ice extent on the Great Lakes*. NOAA Technical Memorandum ERL GLERL-7.
455. Rogers, J.C.\*<sup>\*</sup> 1976. Sea surface temperature anomalies in the eastern north Pacific and associated wintertime atmospheric fluctuations over North America, 1960-73. *Mon. Wea. Rev.* 104:985-993.
456. Rogers, J.C.\*<sup>\*</sup>, DeWitt, B.H.<sup>†</sup>, and Dixon, D.<sup>†</sup> 1975. *Operational ice forecast for the Little Rapids Cut*. NOAA Technical Memorandum ERL GLERL-4.
457. Rooney, J.P.<sup>†</sup>, and Chapra, S.C.\*<sup>\*</sup> 1974. *Water quality analysis of the Raritan Bay system*. Report prepared for the Water Programs Branch, Environmental Programs Division, U.S. Environmental Protection Agency--Region II.
458. Rosenberger, D.R.<sup>†</sup>, and Robertson, A.\*<sup>\*</sup>, ed. 1976. *Proceedings, workshop on environmental mapping of the Great Lakes*. Windsor, ON: International Joint Commission Research Advisory Board.
459. Rumer, R.R., Jr.<sup>†</sup>, Bialas, W.F.<sup>†</sup>, Quinn, F.H., Assel, R.A., and Gaskill, D.W.\*<sup>\*</sup> 1983. Niagara River ice boom: Effects on environment. *J. Tech. Topics Civil Eng.* 109:105-116.
460. Sackett, W.M.<sup>†</sup>, Poag, C.W.<sup>†</sup>, and Eadie, B.J. 1974. Kerogen recycling in the Ross Sea, Antarctica. *Science* 185:1045-1047.
461. Saylor, J.H. 1974. Nearshore bottom stability in relation to changing lake levels. In *Proceedings, technical conference on Lake Michigan shoreland planning*, pp. 42-55. Chicago: Lake Michigan Federation.
462. Saylor, J.H. 1977. Physical limnology. In *The waters of Lake Huron and Lake Superior, vol. II, part B: Lake Huron, Georgian Bay, and the North Channel*, ed. Upper Lakes Reference Group, pp. 295-350. Windsor, ON: International Joint Commission.
463. Saylor, J.H. 1981. Rotational waves in the Great Lakes and their significance in large-scale mixing processes. *Ocean Manage.* 6:236.
464. Saylor, J.H., and Sloss, P.W.\*<sup>\*</sup> 1976. Water volume transport and oscillatory current flow through the Straits of Mackinac. *J. Phys. Oceanogr.* 6:229-237.
465. Saylor, J.H., and Miller, G.S. 1976. *Winter currents in Lake Huron*. Technical Memorandum ERL GLERL-15.

466. Saylor, J.H., and Danek, L.J.\* 1977. Wind-driven circulation of Saginaw Bay. In *Proceedings, 15th coastal engineering conference*, pp. 3262-3275. New York: American Society of Civil Engineers.
467. Saylor, J.H., and Boyce, F.M.† 1978. Water movements panel. *IFYGL Bull.* 22:69-84.
468. Saylor, J.H., and Miller, G.S. 1979. Lake Huron winter circulation. *J. Geophys. Res.* 84:3237-3252.
469. Saylor, J.H., Huang, J.C.K.\*, and Reid, R.O.† 1980. Vortex modes in southern Lake Michigan. *J. Phys. Oceanogr.* 10:1814-1823.
470. Saylor, J.H., Bennett, J.R., Boyce, F.M.†, Liu, P.C., Murthy, C.R.†, Pickett, R.L.\*, and Simmons, T.J.† 1981. Water movements. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 247-324. Ann Arbor: Great Lakes Environmental Research Laboratory.
471. Saylor, J.H., and Miller, G.S. 1983. *Investigation of the currents and density structure of Lake Erie*. NOAA Technical Memorandum ERL GLERL-49.
472. Saylor, J.H., and Miller, G.S. 1984. Studies of lake-scale currents and temperature distributions. In *Technical assessment team report on the 1978-79 Lake Erie intensive study*, ed. D.E. Rathke et al. Columbus, OH: Ohio State University.
473. Scavia, D. 1974. *Implementation of a pelagic ecosystem model for lakes*. International Biological Program Eastern Deciduous Forest Biome--IBP Report 74-4.
474. Scavia, D. 1977. Book review of *Modeling in Water Management*. *Bioscience* 27:688.
475. Scavia, D. 1979. Examination of phosphorus cycling and control of phytoplankton dynamics in Lake Ontario with an ecological model. *J. Fish. Res. Board Can.* 36:1336-1346.
476. Scavia, D. 1979. The use of ecological models of lakes in synthesizing available information and identifying research needs. In *Perspectives on lake ecosystem modeling*, ed. D. Scavia and A. Robertson, pp. 109-168. Ann Arbor: Ann Arbor Science.
477. Scavia, D. 1980. Conceptual model of phosphorus cycling. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 119-140. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
478. Scavia, D. 1980. An ecological model of Lake Ontario. *Ecol. Modeling* 8:49-78.

479. Scavia, D. 1980. The need for innovative verification of eutrophication models. In *Workshop on verification of water quality models*, EPA Report No. EPA-600/9-80-016, pp. 214-225. Athens, GA: Environmental Protection Agency.
480. Scavia, D. 1980. Uncertainty analysis of a lake eutrophication model. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
481. Scavia, D. 1982. Use and interpretation of detailed, mechanistic models of phytoplankton dynamics. In *Phytoplankton-environmental interactions in reservoirs*, Technical Report E-81-13, vol. 1, ed. M.W. Lorenzen, pp. 196-222. Vicksberg, MS: U.S. Army Corps of Engineers, Waterways Experimental Station.
482. Scavia, D. 1983. Use and limits of ecosystem models: A Great Lakes perspective. In *Proceedings, workshop on marine ecosystem modeling*, ed. K.W. Turgeon, pp. 57-88. Washington, DC: National Oceanic and Atmospheric Administration.
483. Scavia, D., Bloomfield, J.A.<sup>†</sup>, Fisher, J.S.<sup>†</sup>, Nagy, J.A.<sup>†</sup>, and Park, R.A.<sup>†</sup> 1974. Software for a generalized model for simulating ecosystems. *Simulation* 23:51-56.
484. Scavia, D., Boylen, C.W.<sup>†</sup>, Sheldon, R.B.<sup>†</sup>, and Park, R.A.<sup>†</sup> 1975. *The formulation of a generalized model for simulating aquatic macrophyte production*. International Biological Program Eastern Deciduous Forest Biome Memo Report 75-4.
485. Scavia, D., and Park, R.A.<sup>†</sup> 1976. Documentation of selected constructs and parameter values in the aquatic model CLEANER. *Ecol. Modeling* 2:33-58.
486. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976. *An ecological model for Lake Ontario: Model formulation, calibration, and preliminary evaluation*. NOAA Technical Report ERL 371-GLELR 12.
487. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976. An ecological model for the Great Lakes. In *Proceedings, conference on environmental modeling and simulation*, ed. W.T. Ott, pp. 629-633. Washington, DC: U.S. Environmental Protection Agency.
488. Scavia, D., and Eadie, B.J. 1976. The use of measurable coefficients in process formulations--Zooplankton grazing. *Ecol. Modeling* 2:315-319.
489. Scavia, D., and Chapra, S.C.\* 1977. Comparison of an ecological model of Lake Ontario and phosphorus loading models. *J. Fish. Res. Board Can.* 34:286-290.
490. Scavia, D., and Bennett, J.R. 1980. Spring transition period in Lake Ontario--A numerical study of the causes of the large biological and chemical gradients. *Can. J. Fish. Aquat. Sci.* 37:823-833.

491. Scavia, D., Powers, W.F.<sup>†</sup>, Canale, R.P.<sup>†</sup>, and Moody, J.F.\* 1981. Comparison of first-order error analysis and Monte Carlo simulation in time-dependent lake eutrophication models. *Water Resour. Res.* 17:1051-1059.
492. Scavia, D., Canale, R.P.<sup>†</sup>, Powers, W.F.<sup>†</sup>, and Moody, J.F.\* 1981. Variance estimates for a dynamic eutrophication model of Saginaw Bay, Lake Huron. *Water Resour. Res.* 17:1115-1124.
493. Scavia, D., and Gardner, W.S. 1982. Kinetics of nitrogen and phosphorus release in varying food supplies by *Daphnia magna*. *Hydrobiologia* 96:105-111.
494. Scavia, D., and McFarland, M.J.<sup>†</sup> 1982. Phosphorus release patterns and the effects of reproductive stage and ecdysis in *Daphnia magna*. *Can. J. Fish. Aquat. Sci.* 39:1310-1314.
495. Scavia, D., Fahnenstiel, G.L., Davis, J.A.<sup>†</sup>, and Kreis, R.G., Jr.<sup>†</sup> 1984. Small-scale nutrient patchiness: Some consequences and a new encounter mechanism. *Limnol. Oceanogr.* 29:785-793.
496. Scavia, D., and Robertson, A.\*<sup>,</sup> ed. 1979. *Perspectives on lake ecosystem modeling*. Ann Arbor: Ann Arbor Science.
497. Scavia, D., and Moll, R.A.<sup>†</sup>, ed. 1980. *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
498. Schelske, C.L.<sup>†</sup>, Eadie, B.J., and Krausse, G.L.<sup>†</sup> 1984. Measured and predicted fluxes of biogenic silica in Lake Michigan. *Limnol. Oceanogr.* 29:99-110.
499. Schwab, D.J. 1977. Internal free oscillations in Lake Ontario. *Limnol. Oceanogr.* 22:700-708.
500. Schwab, D.J. 1977. An objective analysis scheme for lake currents. *IFYGL Bull.* 19:50-52.
501. Schwab, D.J. 1978. Simulation and forecasting of Lake Erie storm surges. *Mon. Wea. Rev.* 106:1476-1487.
502. Schwab, D.J. 1979. Analytical and empirical response functions for storm surges on Lake Erie. In *Proceedings, symposium on long waves in the ocean*, Manuscript Report Series No. 53, pp. 140-144. Ottawa, ON: Marine Sciences Directorate.
503. Schwab, D.J. 1980. *The free oscillations of Lake St. Clair--An application of Lanczos' procedure*. NOAA Technical Memorandum ERL GLERL-32.
504. Schwab, D.J. 1981. Determination of wind stress from water level fluctuations. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.

505. Schwab, D.J. 1982. An inverse method for determining wind stress from water-level fluctuations. *Dyn. Atmos. Oceans* 6:251-278.
506. Schwab, D.J. 1983. Numerical simulation of low-frequency current fluctuations in Lake Michigan. *J. Phys. Oceanogr.* 13:2213-2224.
507. Schwab, D.J., and Rao, D.B.\* 1977. Gravitational oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel. *J. Geophys. Res.* 82:2105-2116.
508. Schwab, D.J., and Sellers, D.L.\* 1980. Computerized bathymetry and shorelines of the Great Lakes. NOAA Data Report ERL GLERL-16.
509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\* 1980. Wind and wave measurements taken from a tower in Lake Michigan. *J. Great Lakes Res.* 6:76-82.
510. Schwab, D.J., Liu, P.C., Bennett, J.R., and Meadows, G.A.† 1981. Lake Erie coastal boundary layer study measures flux of energy during storms. *Coast. Oceanogr. Climatol. News* 4:10.
511. Schwab, D.J., Bennett, J.R., and Jessup, A.T.† 1981. A two-dimensional lake circulation modeling system. NOAA Technical Memorandum ERL GLERL-38.
512. Schwab, D.J., Shuchman, R.A.†, and Liu, P.C. 1981. Wind wave directions determined from synthetic aperture radar imagery and from a tower in Lake Michigan. *J. Geophys. Res.* 86:2059-2064.
513. Schwab, D.J., and Hutter, K.† 1982. Barotropic and baroclinic eigenmodes of Lake of Zurich and Lake of Lugano. Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie Internal Report I 64.
514. Schwab, D.J., Liu, P.C., Bennett, J.R., Meadows, G.A.†, Schultz, H.J.†, Campbell, J.E., and Dannelongue, H.H.† 1982. Coastal boundary layer study records response of Lake Erie to storms. *Coast. Oceanogr. Climatol. News* 4:30-31.
515. Schwab, D.J., and Rao, D.B.\* 1983. Barotropic oscillations of the Mediterranean and Adriatic Seas. *Tellus* 35A:417-427.
516. Schwab, D.J., Bennett, J.R., Liu, P.C., and Donelan, M.A.† 1984. Application of a simple numerical wave prediction model to Lake Erie. *J. Geophys. Res.* 89:3586-3592.
517. Schwab, D.J., and Morton, J.A. 1984. Estimation of overlake wind speed from overland wind speed: A comparison of three methods. *J. Great Lakes Res.* 10:68-72.
518. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984. "Pathfinder"--A trajectory prediction system for the Great Lakes. NOAA Technical Memorandum ERL GLERL-53.

519. Schwab, D.J., Meadows, G.A.<sup>†</sup>, Bennett, J.R., Schultz, H.<sup>†</sup>, Liu, P.C., Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1984. The response of the coastal boundary layer to wind and waves: Analysis of an experiment in Lake Erie. *J. Geophys. Res.* 89:8043-8053.
520. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984. A two-dimensional lake wave prediction system. NOAA Technical Memorandum ERL GLERL-51.
521. Sleator, F.E.\* 1978. *Ice thickness and stratigraphy at nearshore locations on the Great Lakes (English units)*. NOAA Data Report ERL GLERL-1-1.
522. Sleator, F.E.\* 1978. *Ice thickness and stratigraphy at nearshore locations on the Great Lakes (metric units)*. NOAA Data Report ERL GLERL-1-2.
523. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1975. Measurements of current flow during summer in Lake Huron. NOAA Technical Report ERL 353-GLELR 5.
524. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1976. Large-scale current measurements in Lake Huron. *J. Geophys. Res.* 81:3069-3078.
525. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1976. Large-scale current measurements in Lake Superior. NOAA Technical Report ERL 363-GLELR 8.
526. Sonzogni, W.C.\* 1981. The slow painting of a 'big picture.' *Great Lakes Basin Comm. Commun.* 11:3.
527. Sonzogni, W.C.\* 1982. Great Lakes: A look to the future. In *Oceans 82--Conference proceedings of the Marine Technology Society and the Institute of Electrical and Electronics Engineers*, pp. 1186-1189. Washington, DC: Marine Technology Society and the Institute of Electrical and Electronics Engineers.
528. Sonzogni, W.C.\*<sup>,</sup> and Swain, W.R.<sup>†</sup> 1980. Perspectives on U.S. Great Lakes chemical toxic substances research. *J. Great Lakes Res.* 6:265-274.
529. Sonzogni, W.C.\*<sup>,</sup> Chapra S.C.\*<sup>,</sup> Armstrong, D.E.<sup>†</sup>, and Logan, T.J.<sup>†</sup> 1981. *Bioavailability of phosphorus inputs to lakes: Significance to management*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
530. Sonzogni, W.C.\*<sup>,</sup> Richardson, W.<sup>†</sup>, Rogers, P.<sup>†</sup>, and Monteith, T.J.<sup>†</sup> 1981. *Chloride budget for the Great Lakes: A current assessment*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
531. Sonzogni, W.C.\*<sup>,</sup> Robertson, A.\*<sup>,</sup> and Beeton, A.M.<sup>†</sup> 1981. *The importance of ecological factors in Great Lakes management*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.

532. Sonzogni, W.C.\*<sup>t</sup>, and Simmons, M.S.<sup>t</sup> 1981. *Notes on Great Lakes trace metal and toxic organic contaminants.* GLERL Open File Report.
533. Sonzogni, W.C.\*<sup>t</sup>, Richardson, W.<sup>t</sup>, Rodgers, P.<sup>t</sup>, and Monteith, T.J.<sup>t</sup> 1983. Chloride pollution of the Great Lakes. *J. Water Pollut. Control Fed.* 55:513-521.
534. Sonzogni, W.C.\*<sup>t</sup>, Robertson, A.\*<sup>t</sup>, and Beeton, A.M.<sup>t</sup> 1983. Great Lakes management: Ecological factors. *Environ. Manage.* 7:531-541.
535. Sonzogni, W.C.\*<sup>t</sup>, and Swain, W.R.<sup>t</sup> 1984. Perspectives on human health concerns from Great Lakes contaminants. In *Toxic contaminants in the Great Lakes*, ed. J.O. Nriagu and M.S. Simmons, pp. 1-29. Wiley Series in Environmental Science and Technology, ed. J. O. Nriagu, vol. 14. New York: John Wiley and Sons.
536. Spacie, A.<sup>t</sup>, Landrum, P.F., and Leversee, G.J.<sup>t</sup> 1983. Uptake, depuration, and biotransformation of anthracene and benzo(a)pyrene in bluegill sunfish. *Ecotoxicol. Environ. Safety* 7:330-341.
537. Steinhart, C.E.<sup>t</sup>, Schierow, L.J.<sup>t</sup>, and Sonzogni, W.C.\*<sup>t</sup> 1982. An environmental quality index for the Great Lakes. *Water Resour. Res.* 18:1025-1031.
538. Strong, A.E.<sup>t</sup>, and Eadie, B.J. 1978. Satellite observations of calcium carbonate precipitations in the Great Lakes. *Limnol. Oceanogr.* 23: 877-887.
539. Stubblefield, B., and Bennett, J.R. 1984. *Preliminary report on GLERL's ice dynamics simulation model.* GLERL Open File Report.
540. Sullivan, R.A.<sup>t</sup>, Boise, M.<sup>t</sup>, and Sonzogni, W.C.\*<sup>t</sup> 1981. *Environmental quality maps for the U.S. Great Lakes Basin.* Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
541. Sullivan, R.A.<sup>t</sup>, Heidtke, T.M.<sup>t</sup>, Hall, J.R.<sup>t</sup>, and Sonzogni, W.C.\*<sup>t</sup> 1981. *Potential impact of changes in Great Lakes water quality on fisheries.* Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
542. Tarapchak, S.J. 1980. Measurements of phosphate-phosphorus in lake water. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 1-11. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
543. Tarapchak, S.J. 1983. Soluble reactive phosphorus measurements in lake water: Evidence of molybdate-enhanced hydrolysis. *J. Environ. Qual.* 12:105-108.

544. Tarapchak, S.J., and Stoermer, E.T.<sup>†</sup> 1976. Environmental status of the Lake Michigan Region, vol. 4: Phytoplankton of Lake Michigan. Report No. ANL/ES-40 prepared for the U.S. Energy Research and Development Administration by GLERL and the University of Michigan under Contract No. W-31-109-ENG-38.
545. Tarapchak, S.J., and Wright, R.F.<sup>†</sup> 1977. Three oligotrophic lakes in northern Minnesota. In North American project--A study of U.S. water bodies, ed. L. Seyb and K. Randolph, pp. 64-90. Corvallis, OR: U.S. Environmental Protection Agency.
546. Tarapchak, S.J., Slavens, D.R.\*<sup>\*</sup>, and Maloney, L.M.\*<sup>\*</sup> 1981. Abiotic versus biotic uptake of radiophosphorus in lake water. *Can. J. Fish. Aquat. Sci.* 38:889-895.
547. Tarapchak, S.J., and Rubitschun, C.\*<sup>\*</sup> 1981. Comparisons of soluble reactive phosphorus and orthophosphorus concentrations at an offshore station in southern lake Michigan. *J. Great Lakes Res.* 7:290-298.
548. Tarapchak, S.J., Bigelow, S.M.\*<sup>\*</sup>, and Rubitschun, C.\*<sup>\*</sup> 1982. Overestimation of orthophosphorus concentrations in surface waters of southern Lake Michigan: Effects of acid and ammonium molybdate. *Can. J. Fish. Aquat. Sci.* 39:296-304.
549. Tarapchak, S.J., Chambers, R.L.\*<sup>\*</sup>, and Bigelow, S.M.\*<sup>\*</sup> 1982. Soluble reactive phosphorus measurements in Lake Michigan: Causes of method-specific differences. *J. Great Lakes Res.* 8:700-710.
550. Tarapchak, S.J., Bigelow, S.M.\*<sup>\*</sup>, and Rubitschun, C.\*<sup>\*</sup> 1982. Soluble reactive phosphorus measurements in Lake Michigan: Filtration artifacts. *J. Great Lakes Res.* 8:550-557.
551. Tarapchak, S.J., Slavens, D.R.\*<sup>\*</sup>, Quigley, M.A., and Tarapchak, J.S.<sup>†</sup> 1983. Silicon contamination in diatom nutrient enrichment experiments. *Can. J. Fish. Aquat. Sci.* 40:657-664.
552. Thomann, R.V.<sup>†</sup>, and Scavia, D. 1977. Some comments on a water quality model for deep reservoirs. *J. Water Pollut. Control Fed.* 49:507-509.
553. Thomann, R.V.<sup>†</sup>, Scavia, D., Di Toro, D.M.<sup>†</sup>, and Robertson, A.\*<sup>\*</sup> 1981. Ecosystem and water quality modeling. In IFYGL--The International Field Year for the Great Lakes, ed. E.J. Aubert and T.L. Richards, pp. 353-366. Ann Arbor: Great Lakes Environmental Research Laboratory.
554. Thomas, N.A.<sup>†</sup>, Nalepa, T.F., and Robertson, A.\*<sup>\*</sup> 1978. Biology-chemistry program during IFYGL. *Verh. Internat. Verein. Limnol.* 20:304-310.

555. Thomas, N.A.<sup>†</sup>, Robertson, A.\*<sup>,</sup> and Sonzogni, W.C.\*<sup>,</sup> 1980. Review of control objectives: New target loads and input controls. In *Phosphorus management strategies for lakes*, ed. R.C. Loehr, C.S. Martin, and W. Rast, pp. 61-90. Ann Arbor: Ann Arbor Science.
556. Tisue, G.T.<sup>†</sup>, Fingleton, D.J.<sup>†</sup>, Robbins, J.A., Allison, R.<sup>†</sup>, and Brar, S.<sup>†</sup> 1981. *Air quality changes over Lake Michigan: 1973-74 compared with 1978-79*. Argonne National Laboratory Report ANL-80-225, Pt. III.
557. Vanderploeg, H.A. 1979. Dynamics of zinc-65 specific activity and total zinc in benthic fishes on the outer continental shelf off central Oregon. *Mar. Biol.* 52:259-272.
558. Vanderploeg, H.A. 1981. Effect of the algal length/aperture length ratio on Coulter analysis of lake seston. *Can. J. Fish. Aquat. Sci.* 38:912-916.
559. Vanderploeg, H.A. 1981. Seasonal particle-size selection by *Diaptomus sicilis* in offshore Lake Michigan. *Can. J. Fish. Aquat. Sci.* 38:504-517.
560. Vanderploeg, H.A., Parzyck, D.C.<sup>†</sup>, Wilcox, W.H.<sup>†</sup>, Kercher, J.R.<sup>†</sup>, and Kay, S.V.<sup>†</sup> 1975. *Bioaccumulation factors for radionuclides in freshwater biota*. Environmental Sciences Division, Oakridge National Laboratory, Report ORNL-5002, UC-11-Environmental and Earth Sciences.
561. Vanderploeg, H.A., and Kercher, J.R.<sup>†</sup> 1975. Effects of limnological variables on bioaccumulation factors. In *Radiation research, biomedical, chemical, and physical perspectives*, ed. O.F. Nygaard, H.I. Adler, and W.K. Sinclair, pp. 1192-1204. New York: Academic Press.
562. Vanderploeg, H.A., Booth, R.S.<sup>†</sup>, and Clark, F.H.<sup>†</sup> 1975. A specific activity and concentration model applied to cesium movement in an oligotrophic lake. In *Mineral cycling in southeastern ecosystems*, ed. F.G. Howell, J.B. Gentry, and M.H. Smith, pp. 142-165. U.S. Energy Research and Development Administration.
563. Vanderploeg, H.A., and Booth, R.S.<sup>†</sup> 1976. Interpretation of biological-rate coefficients derived from radionuclide content, radionuclide concentration, and specific activity experiments. *Health Phys.* 31:57-59.
564. Vanderploeg, H.A., Booth, R.S.<sup>†</sup>, and Clark, F.H.<sup>†</sup> 1976. A specific activity and concentration model applied to cesium-137 movement in a eutrophic lake. In *Radioecology and energy resources*, Ecological Society of America Special Publication No. 1, ed. C.E. Cushing, Jr., pp. 164-177. Stroudsburg, PA: Dowden, Hutchinson, and Ross.
565. Vanderploeg, H.A., and Scavia, D. 1979. Calculation and use of selectivity coefficients of feeding: Zooplankton grazing. *Ecol. Modeling* 7:135-149.

566. Vanderploeg, H.A., and Scavia, D. 1979. Two electivity indices for feeding with special reference to zooplankton grazing. *J. Fish. Res. Board Can.* 36:362-365.
567. Vanderploeg, H.A., and Ondricek-Fallscheer, R.L.\* 1982. Intersetule distances are a poor predictor of particle-retention efficiency in *Diaptomus sicilis*. *J. Plankton Res.* 4:237-244.
568. Vanderploeg, H.A., Bowers, J.A.<sup>†</sup>, Chaperski, O.<sup>†</sup>, and Soo, H.K. 1982. Measuring in situ predation by *Mysis relicta* and observations on underdispersed microdistributions of zooplankton. *Hydrobiologia* 93:109-119.
569. Vanderploeg, H.A., and Scavia, D. 1983. Misconceptions about estimating prey preference. *Can. J. Fish. Aquat. Sci.* 40:248-250.
570. Vanderploeg, H.A., Scavia, D., and Liebig, J.R. 1984. Feeding rate of *Diaptomus sicilis* and its relation to selectivity and effective food concentration in algal mixtures and in Lake Michigan. *J. Plankton Res.* 6:919-941.
571. Whiteside, M.C.<sup>†</sup>, Bradbury, J.P.<sup>†</sup>, and Tarapchak, S.J. 1980. The limnology of the Klutan moraine lakes. *Quat. Res.* 14:130-148.

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\*No longer affiliated with this laboratory.

<sup>†</sup>Not affiliated with this laboratory.

GLERL SECONDARY AUTHORS<sup>1</sup> CROSS-REFERENCE

ASSEL, R.A.

144. DeWitt, B.H.<sup>†</sup>, Kahlbaum, D.F.<sup>†</sup>, Baker, D.G.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, Keyes, F.A.<sup>†</sup>, Boyce, D.E.<sup>†</sup>, Quinn, F.H., Assel, R.A., Baker-Blocker, A.<sup>†</sup>, and Kurdziel, K.M.<sup>†</sup> 1980.
410. Quinn, F.H., Assel, R.A., Boyce, D.E.<sup>†</sup>, Leshkevich, G.A., Snider, C.R.<sup>†</sup>, and Weisnet, D.<sup>†</sup> 1978.
412. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1980.
415. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1982.
459. Rumer, R.R., Jr.<sup>†</sup>, Bialas, W.F.<sup>†</sup>, Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1983.

AUBERT, E.J.

81. Callahan, C.J.<sup>†</sup>, McCulloch, J.A.W.<sup>†</sup>, Aubert, E.J., and Rasmusson, E.M.<sup>†</sup> 1976.
431. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1978.
432. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1981.

BELL, G.L.

153. Eadie, B.J., Bell, G.L., Chambers, R.L.\* , Malczyk, J.M., Stankevich, E.A.\* , and Langston, A.L.\* 1980.
162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\* , Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983.
163. Eadie, B.J., Chambers, R.L.\* , Gardner, W.S., and Bell, G.L. 1984.
235. Hawley, N., Chambers, R.L.\* , and Bell, G.L. 1983.

BENNETT, J.R.

306. Liu, P.C., Schwab, D.J., and Bennett, J.R. 1984.
313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982.
490. Scavia, D., and Bennett, J.R. 1980.
510. Schwab, D.J., Liu, P.C., Bennett, J.R., and Meadows, G.A.<sup>†</sup> 1981.
511. Schwab, D.J., Bennett, J.R., and Jessup, A.T.<sup>†</sup> 1981.
514. Schwab, D.J., Liu, P.C., Bennett, J.R., Meadows, G.A.<sup>†</sup>, Schultz, H.J.<sup>†</sup>, Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1982.
516. Schwab, D.J., Bennett, J.R., Liu, P.C., and Donelan, M.A.<sup>†</sup> 1984.
518. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984.

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<sup>†</sup> Not affiliated with this laboratory.

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BENNETT, J.R. (cont.)

519. Schwab, D.J., Meadows, G.A.<sup>†</sup>, Bennett, J.R., Schultz, H.<sup>†</sup>, Liu, P.C., Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1984.  
520. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984.  
539. Stubblefield, B., and Bennett, J.R. 1984.

BOLSENGA, S.J.

16. Assel, R.A., Quinn, F.H., Leshkevich, G.A., and Bolsenga, S.J. 1983.

BOOKER, H.L.

509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\* 1980.

CAMPBELL, J.C.

313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982.  
361. Pickett, R.L.\*<sup>†</sup>, Campbell, J.E., Clites, A.H., and Partridge, R.M.<sup>†</sup> 1983.  
514. Schwab, D.J., Liu, P.C., Bennett, J.R., Meadows, G.A.<sup>†</sup>, Schultz, H.J.<sup>†</sup>, Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1982.

CLITES, A.H.

50. Bennett, J.R., Clites, A.H., and Schwab, D.J. 1983.  
361. Pickett, R.L.\*<sup>†</sup>, Campbell, J.E., Clites, A.H., and Partridge, R.M.<sup>†</sup> 1983.

CROLEY, T.E., II

186. Giaquinta, A.R.<sup>†</sup>, and Croley, T.E., II. 1981.  
414. Quinn, F.H., and Croley, T.E., II. 1981.  
416. Quinn, F.H., and Croley, T.E., II. 1983.

DERECKI, J.A.

406. Quinn, F.H., and Derecki, J.A. 1976.  
407. Quinn, F.H., and Derecki, J.A. 1976.  
411. Quinn, F.H., Derecki, J.A., and Kelley, R.N. 1979.

EADIE, B.J.

43. Bell, G.L., and Eadie, B.J. 1983.  
77. Boyd, J.D.\*<sup>†</sup>, and Eadie, B.J. 1977.

EADIE, B.J. (cont.)

78. Boyd, J.D.\* , and Eadie, B.J. 1978.  
83. Chambers, R.L.\* , and Eadie, B.J. 1980.  
84. Chambers, R.L.\* , Eadie, B.J., and Rao, D.B.\* 1980.  
85. Chambers, R.L.\* , and Eadie, B.J. 1981.  
170. Gardner, W.S., and Eadie, B.J. 1980.  
171. Gardner, W.S., Eadie, B.J., and Miller, W.H.† 1980.  
275. Landrum, P.F., Nihart, S.R.\* , Eadie, B.J., and Gardner, W.S. 1984.  
276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985.  
307. Malczyk, J.M., and Eadie, B.J. 1980.  
314. Meyers, P.A.† , Leenheer, M.J.† , Eadie, B.J., and Maule, S.J.† 1984.  
356. Pickett, R.L.\* , and Eadie, B.J. 1976.  
430. Rice, C.P.† , Eadie, B.J., and Erstfeld, K.M.† 1982.  
436. Robbins, J.A.\* , and Eadie, B.J. 1982.  
447. Robertson, A.\* , and Eadie, B.J. 1975.  
460. Sackett, W.M.† , Poag, C.W.† , and Eadie, B.J. 1974.  
486. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976.  
487. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976.  
488. Scavia, D., and Eadie, B.J. 1976.  
498. Schelske, C.L.† , Eadie, B.J., and Krausse, G.L.† 1984.  
538. Strong, A.E.† , and Eadie, B.J. 1978.

FAHNENSTIEL, G.L.

495. Scavia, D., Fahnenstiel, G.L., Davis, J.A.† , and Kreis, R.G., Jr.† 1984.

FAUST, W.R.

156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982.  
157. Eadie, B.J., Faust, W., Gardner, W.S., and Nalepa, T.F. 1982.  
158. Eadie, B.J., Landrum, P.F., and Faust, W. 1982.  
159. Eadie, B.J., Faust, W., and Landrum, P.F. 1982.  
164. Eadie, B.J., Faust, W.R., Landrum, P.F., and Morehead, N.R. 1985.  
276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985.

FREZ, W.A.

160. Eadie, B.J., Rice, C.P.† , and Frez, W.A. 1982.

GARDNER, W.S.

156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982.  
157. Eadie, B.J., Faust, W., Gardner, W.S., and Nalepa, T.F. 1982.  
163. Eadie, B.J., Chambers, R.L.\* , Gardner, W.S., and Bell, G.L. 1984.

GARDNER, W.S. (cont.)

275. Landrum, P.F., Nihart, S.R.\*<sup>†</sup>, Eadie, B.J., and Gardner, W.S. 1984.  
332. Nalepa, T.F., Gardner, W.S., and Malczyk, J.M. 1983.  
338. Paffenhofer, G.A.<sup>†</sup>, and Gardner, W.S. 1984.  
493. Scavia, D., and Gardner, W.S. 1982.

HARTMANN, H.C.

116. Croley, T.E., II, and Hartmann, H.C. 1983.  
117. Croley, T.E., II, and Hartmann, H.C. 1984.  
119. Croley, T.E., II, and Hartmann, H.C. 1985.

HAWLEY, N.

162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\*<sup>†</sup>, Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983.

KELLEY, R.N.

143. Derecki, J.A., and Kelley, R.N. 1981.  
411. Quinn, F.H., Derecki, J.A., and Kelley, R.N. 1979.  
417. Quinn, F.H., and Kelley, R.N. 1983.

KISTLER, R.D.

71. Bolsenga, S.J., and Kistler, R.D. 1982.  
509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\*<sup>†</sup> 1980.

LAIRD, G.A.

182. Gardner, W.S., Nalepa, T.F., Slavens, D.R.\*<sup>†</sup>, and Laird, G.A. 1983.

LANDRUM, P.F.

74. Bowling, J.W.<sup>†</sup>, Leversee, G.J.<sup>†</sup>, Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1983.  
156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982.  
158. Eadie, B.J., Landrum, P.F., and Faust, W. 1982.  
159. Eadie, B.J., Faust, W., and Landrum, P.F. 1982.  
162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\*<sup>†</sup>, Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983.  
164. Eadie, B.J., Faust, W.R., Landrum, P.F., and Morehead, N.R. 1985.  
177. Gardner, W.S., Landrum, P.F., and Yates, D.A.<sup>†</sup> 1982.  
180. Gardner, W.S., and Landrum, P.F. 1983.

LANDRUM, P.F. (cont.)

185. Gerould, S.<sup>†</sup>, Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1983.
227. Haddock, J.D.<sup>†</sup>, Landrum, P.F., and Giesy, J.T.<sup>†</sup> 1983.
288. Leversee, G.J.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Landrum, P.F., Bartell, S.<sup>†</sup>, Gerould, S.<sup>†</sup>, Bruno, M.<sup>†</sup>, Spacie, A.<sup>†</sup>, Bonling, J.<sup>†</sup>, Haddock, J.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1981.
289. Leversee, G.J.<sup>†</sup>, Landrum, P.F., Giesy, J.P.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1983.
337. Oris, J.T.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Allred, P.M.<sup>†</sup>, Grant, D.F.<sup>†</sup>, and Landrum, P.F. 1984.
536. Spacie, A.<sup>†</sup>, Landrum, P.F., and Leversee, G.J.<sup>†</sup> 1983.

LANG, G.A.

101. Chapra, S.C.\*<sup>\*</sup>, Scavia, D., Lang, G.A., and Reckhow, K.H.<sup>†</sup> 1983.

LESHKEVICH, G.A.

16. Assel, R.A., Quinn, F.H., Leshkevich, G.A., and Bolsenga, S.J. 1983.
410. Quinn, F.H., Assel, R.A., Boyce, D.E.<sup>†</sup>, Leshkevich, G.A., Snider, C.R.<sup>†</sup>, and Weisnet, D.<sup>†</sup> 1978.

LIU, P.C.

146. Doughty, B.C.\*<sup>\*</sup>, Kessenich, T.A.\*<sup>\*</sup>, and Liu, P.C. 1978.
313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982.
470. Saylor, J.H., Bennett, J.R., Boyce, F.M.<sup>†</sup>, Liu, P.C., Murthy, C.R.<sup>†</sup>, Pickett, R.L.\*<sup>\*</sup>, and Simmons, T.J.<sup>†</sup> 1981.
509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\*<sup>\*</sup> 1980.
510. Schwab, D.J., Liu, P.C., Bennett, J.R., and Meadows, G.A.<sup>†</sup> 1981.
512. Schwab, D.J., Shuchman, R.A.<sup>†</sup>, and Liu, P.C. 1981.
514. Schwab, D.J., Liu, P.C., Bennett, J.R., Meadows, G.A.<sup>†</sup>, Schultz, H.J.<sup>†</sup>, Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1982.
516. Schwab, D.J., Bennett, J.R., Liu, P.C., and Donelan, M.A.<sup>†</sup> 1984.
519. Schwab, D.J., Meadows, G.A.<sup>†</sup>, Bennett, J.R., Schultz, H.<sup>†</sup>, Liu, P.C., Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1984.

LYNN, E.W.

518. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984.
520. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984.

MALCZYK, J.M.

151. Eadie, B.J., Chambers, R.L.\*<sup>\*</sup>, Malczyk, J.M., and Langston, A.L.\*<sup>\*</sup> 1978.
153. Eadie, B.J., Bell, G.L., Chambers, R.L.\*<sup>\*</sup>, Malczyk, J.M., Stankevich, E.A.\*<sup>\*</sup>, and Langston, A.L.\*<sup>\*</sup> 1980.

MALCZYK, J.M. (cont.)

176. Gardner, W.S., Nalepa, T.F., Quigley, M.A., and Malczyk, J.M. 1981.
181. Gardner, W.S., and Malczyk, J.M. 1983.
332. Nalepa, T.F., Gardner, W.S., and Malczyk, J.M. 1983.

McCORMICK, M.J.

155. Eadie, B.J., McCormick, M.J., Rice, C.<sup>†</sup>, Levon, P.\*<sup>\*</sup>, and Simmons, M.<sup>†</sup> 1981.
162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\*<sup>\*</sup>, Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983.
237. Henderson-Sellers, B.<sup>†</sup>, McCormick, M.J., and Scavia, D. 1983.
276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985.

MILLER, G.S.

302. Liu, P.C., Miller, G.S., and Saylor, J.H. 1976.
465. Saylor, J.H., and Miller, G.S. 1976.
468. Saylor, J.H., and Miller, G.S. 1979.
471. Saylor, J.H., and Miller, G.S. 1983.
472. Saylor, J.H., and Miller, G.S. 1984.

MOREHEAD, N.R.

156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982.
164. Eadie, B.J., Faust, W.R., Landrum, P.F., and Morehead, N.R. 1985.
276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985.

MORTON, J.A.

517. Schwab, D.J., and Morton, J.A. 1984.

NALEPA, T.F.

156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982.
157. Eadie, B.J., Faust, W., Gardner, W.S., and Nalepa, T.F. 1982.
176. Gardner, W.S., Nalepa, T.F., Quigley, M.A., and Malczyk, J.M. 1981.
182. Gardner, W.S., Nalepa, T.F., Slavens, D.R.\*<sup>\*</sup>, and Laird, G.A. 1983.
255. Ischinger, L.S.<sup>†</sup>, and Nalepa, T.F. 1975.
256. Ischinger, L.S.<sup>†</sup>, and Nalepa, T.F. 1976.
554. Thomas, N.A.<sup>†</sup>, Nalepa, T.F., and Robertson, A.\*<sup>\*</sup> 1978.

NORTON, D.C.

69. Bolsenga, S.J., and Norton, D.C. 1975.

QUIGLEY, M.A.

176. Gardner, W.S., Nalepa, T.F., Quigley, M.A., and Malczyk, J.M. 1981.  
325. Nalepa, T.F., White, D.S.<sup>†</sup>, Pringle, C.M.<sup>†</sup>, and Quigley, M.A. 1980.  
326. Nalepa, T.F., and Quigley, M.A. 1980.  
327. Nalepa, T.F., and Quigley, M.A. 1980.  
328. Nalepa, T.F., and Quigley, M.A. 1981.  
331. Nalepa, T.F., and Quigley, M.A. 1983.  
551. Tarapchak, S.J., Slavens, D.R.\*<sup>†</sup>, Quigley, M.A., and Tarapchak, J.S.<sup>†</sup>  
1983.

QUINN, F.H.

14. Assel, R.A., and Quinn, F.H. 1977.  
16. Assel, R.A., Quinn, F.H., Leshkevich, G.A., and Bolsenga, S.J. 1983.  
144. DeWitt, B.H.<sup>†</sup>, Kahlbaum, D.F.<sup>†</sup>, Baker, D.G.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, Keyes,  
F.A.<sup>†</sup>, Boyce, D.E.<sup>†</sup>, Quinn, F.H., Assel, R.A., Baker-Blocker, A.<sup>†</sup>,  
and Kurdziel, K.M.<sup>†</sup> 1980.  
376. Potok, A.J.\*<sup>†</sup>, and Quinn, F.H. 1979.  
459. Rumer, R.R., Jr.<sup>†</sup>, Bialas, W.F.<sup>†</sup>, Quinn, F.H., Assel, R.A., and Gaskill,  
D.W.\*<sup>†</sup> 1983.

ROBBINS, J.A.

161. Eadie, B.J., Nihart, S.\*<sup>†</sup>, and Robbins, J.A. 1982.  
162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>,  
McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.\*<sup>†</sup>,  
Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983.  
165. Edgington, D.N.<sup>†</sup>, and Robbins, J.A. 1983.  
260. Kadlec, R.H.<sup>†</sup>, and Robbins, J.A. 1984.  
264. Krezowski, J.R.<sup>†</sup>, and Robbins, J.A. 1981.  
265. Krezowski, J.R.<sup>†</sup>, Robbins, J.A., and White, D.S.<sup>†</sup> 1984.  
308. McCall, P.L.<sup>†</sup>, Robbins, J.A., and Matisoff, G.<sup>†</sup> 1984.  
382. Quigley, M.A., and Robbins, J.A. 1984.  
556. Tisue, G.T.<sup>†</sup>, Fingleton, D.J.<sup>†</sup>, Robbins, J.A., Allison, R.<sup>†</sup>, and Brar,  
S.<sup>†</sup> 1981.

SAYLOR, J.H.

2. Allender, J.H.<sup>†</sup>, and Saylor, J.H. 1979.  
44. Bennett, E.B.<sup>†</sup>, and Saylor, J.H. 1974.  
45. Bennett, E.B.<sup>†</sup>, and Saylor, J.H. 1977.  
121. Danek, L.J.\*<sup>†</sup>, and Saylor, J.H. 1975.  
122. Danek, L.J.\*<sup>†</sup>, and Saylor, J.H. 1977.  
250. Huang, J.C.K.\*<sup>†</sup>, and Saylor, J.H. 1982.  
302. Liu, P.C., Miller, G.S., and Saylor, J.H. 1976.

SAYLOR, J.H. (cont.)

316. Miller, G.S., and Saylor, J.H. 1981.  
523. Sloss, P.W.\*<sup>†</sup>, and Saylor, J.H. 1975.  
524. Sloss, P.W.\*<sup>†</sup>, and Saylor, J.H. 1976.  
525. Sloss, P.W.\*<sup>†</sup>, and Saylor, J.H. 1976.

SCAVIA, D.

101. Chapra, S.C.\*<sup>†</sup>, Scavia, D., Lang, G.A., and Reckhow, K.H.<sup>†</sup> 1983.  
167. Fahnstiel, G.L., Scavia, D., and Schelske, C.L.<sup>†</sup> 1984.  
175. Gardner, W.S., and Scavia, D. 1981.  
237. Henderson-Sellers, B.<sup>†</sup>, McCormick, M.J., and Scavia, D. 1983.  
263. Kohberger, R.C.<sup>†</sup>, Scavia, D., and Wilkinson, J.W.<sup>†</sup> 1978.  
273. Landrum, P.F., and Scavia, D. 1983.  
280. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982.  
281. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982.  
282. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1984.  
309. McCormick, M.J., and Scavia, D. 1981.  
310. McCormick, M.J., Wharam, B.L.\*<sup>†</sup>, and Scavia, D. 1983.  
312. McNaught, D.C.<sup>†</sup>, and Scavia, D. 1976.  
339. Park, R.A.<sup>†</sup>, O'Neill, R.U.<sup>†</sup>, Bloomfield, J.A.<sup>†</sup>, Shugart, H.H.<sup>†</sup>, Booth, R.S.<sup>†</sup>, Goldstein, R.A.<sup>†</sup>, Mankin, J.B.<sup>†</sup>, Kounce, J.F.<sup>†</sup>, Scavia, D., Adams, M.S.<sup>†</sup>, Clesceri, L.S.<sup>†</sup>, Colon, E.M.<sup>†</sup>, Dettman, E.H.<sup>†</sup>, Hoppes, J.A.<sup>†</sup>, Huff, D.D.<sup>†</sup>, Kutz, S.<sup>†</sup>, Kitchell, J.F.<sup>†</sup>, Kohberger, R.C.<sup>†</sup>, Larow, E.J.<sup>†</sup>, McNaught, D.C.<sup>†</sup>, Peterson, J.L.<sup>†</sup>, Titus, J.E.<sup>†</sup>, Weiler, P.R.<sup>†</sup>, Wilkerson, J.W.<sup>†</sup>, and Zahorak, C.S.<sup>†</sup> 1974.  
340. Park, R.A.<sup>†</sup>, Scavia, D., and Clesceri, N.H.<sup>†</sup> 1975.  
448. Robertson, A.\*<sup>†</sup>, and Scavia, D. 1978.  
450. Robertson, A.\*<sup>†</sup>, and Scavia, D. 1979.  
452. Robertson, A.\*<sup>†</sup>, and Scavia, D. 1984.  
552. Thomann, R.V.<sup>†</sup>, and Scavia, D. 1977.  
553. Thomann, R.V.<sup>†</sup>, Scavia, D., Di Toro, D.M.<sup>†</sup>, and Robertson, A.\*<sup>†</sup> 1981.  
565. Vanderploeg, H.A., and Scavia, D. 1979.  
566. Vanderploeg, H.A., and Scavia, D. 1979.  
569. Vanderploeg, H.A., and Scavia, D. 1983.  
570. Vanderploeg, H.A., Scavia, D., and Liebig, J.R. 1984.

SCHWAB, D.J.

49. Bennett, J.R., and Schwab, D.J. 1981.  
50. Bennett, J.R., Clites, A.H., and Schwab, D.J. 1983.  
252. Hutter, K.<sup>†</sup>, and Schwab, D.J. 1982.  
253. Hutter, K.<sup>†</sup>, Salvadè, G.<sup>†</sup>, and Schwab, D.J. 1983.  
306. Liu, P.C., Schwab, D.J., and Bennett, J.R. 1984.  
313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982.  
319. Mortimer, C.H.<sup>†</sup>, Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1976.  
425. Rao, D.B.\*<sup>†</sup>, Mortimer, C.H.<sup>†</sup>, and Schwab, D.J. 1976.  
426. Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1976.  
427. Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1981.  
433. Richardson, W.S.<sup>†</sup>, and Schwab, D.J. 1979.

SOO, H.K.

509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\* 1980.  
568. Vanderploeg, H.A., Bowers, J.A.†, Chapeleski, O.†, and Soo, H.K. 1982.

TARAPCHAK, S.J.

79. Bradbury, J.P.†, Tarapchak, S.J., Waddington, J.C.B.†, and Wright, R.F.† 1975.  
96. Chapra, S.C.\* and Tarapchak, S.J. 1976.  
311. McCormick, M.J., and Tarapchak, S.J. 1984.  
571. Whiteside, M.C.†, Bradbury, J.P.†, and Tarapchak, S.J. 1980.

VANDERPLOEG, H.A.

73. Bowers, J.A.†, and Vanderploeg, H.A. 1982.  
178. Gardner, W.S., and Vanderploeg, H.A. 1982.

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†Not affiliated with this laboratory.

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PUBLICATIONS LISTED BY TITLE

546. Tarapchak, S.J., Slavens, D.R.\*<sup>†</sup>, and Maloney, L.M.\*<sup>†</sup> 1981. Abiotic versus biotic uptake of radiophosphorus in lake water. *Can. J. Fish. Aquat. Sci.* 38:889-895.
331. Nalepa, T.F., and Quigley, M.A. 1983. Abundance and biomass of the meiobenthos in nearshore Lake Michigan with comparisons to the macrobenthos. *J. Great Lakes Res.* 9:530-547.
74. Bowling, J.W.<sup>†</sup>, Leversee, G.J.<sup>†</sup>, Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1983. Acute mortality of anthracene-contaminated fish exposed to sunlight. *Aquat. Toxicol.* 3:79-90.
24. Aubert, E.J. 1984. Advisory mechanisms supporting the mission of the IJC. In *Review of the Great Lakes Water Quality Agreement--Working papers and discussion*, pp. 68-86. Washington, DC: The Water Science and Technology Board, National Research Council, National Academy Press.
556. Tisue, G.T.<sup>†</sup>, Fingleton, D.J.<sup>†</sup>, Robbins, J.A., Allison, R.<sup>†</sup>, and Brar, S.<sup>†</sup> 1981. *Air quality changes over Lake Michigan: 1973-74 compared with 1978-79*. Argonne National Laboratory Report ANL-80-225, Pt. III.
304. Liu, P.C., and Ross, D.B.<sup>†</sup> 1980. Airborne measurements of wave growth for stable and unstable atmospheres in Lake Michigan. *J. Phys. Oceanogr.* 10:1842-1853.
338. Paffenhofer, G.A.<sup>†</sup>, and Gardner, W.S. 1984. Ammonium release by juveniles and adult females of the subtropical marine copepod *Eucalanus pileatus*. *J. Plankton Res.* 6:505-513.
228. Hagman, B.B.\* 1976. *An analysis of Great Lakes ice cover from satellite imagery*. NOAA Technical Memorandum ERL GLERL-9.
391. Quinn, F.H. 1978. *Analysis of Lake Superior regulation plan "1955 modified rule of 1949" for the period 1860-1900*. GLERL Open File Report.
374. Potok, A.J.\* 1978. *Analysis of the effect on Lake Ontario water levels of maintaining year-round safe navigation depths in the St. Lawrence River*. GLERL Open File Report.
502. Schwab, D.J. 1979. Analytical and empirical response functions for storm surges on Lake Erie. In *Proceedings, symposium on long waves in the ocean*, Manuscript Report Series No. 53, pp. 140-144. Ottawa, ON: Marine Sciences Directorate.

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<sup>†</sup>Not affiliated with this laboratory.

\*No longer affiliated with this laboratory.

240. Hore, R.C.<sup>†</sup>, Pinsak, A.P.\*<sup>,</sup> and Vallery, D.J.<sup>†</sup> 1981. Annex F--Consumptive water use. In *Report to the International Joint Commission by the International Great Lakes Diversions and Consumptive Uses Study Board*. Detroit, MI: U.S. Department of the Army, Corps of Engineers.
451. Robertson, A.\*<sup>,</sup> and Gannon, J.E.<sup>†</sup> 1981. An annotated checklist of the free-living copepods of the Great Lakes. *J. Great Lakes Res.* 7:382-393.
390. Quinn, F.H. 1977. Annual and seasonal flow variations through the Straits of Mackinac. *Water Resour. Res.* 13:137-144.
187. Great Lakes Environmental Research Laboratory. 1975. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
189. Great Lakes Environmental Research Laboratory. 1976. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
191. Great Lakes Environmental Research Laboratory. 1977. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
193. Great Lakes Environmental Research Laboratory. 1978. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
195. Great Lakes Environmental Research Laboratory. 1979. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
197. Great Lakes Environmental Research Laboratory. 1980. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
199. Great Lakes Environmental Research Laboratory. 1981. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
201. Great Lakes Environmental Research Laboratory. 1982. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
203. Great Lakes Environmental Research Laboratory. 1983. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
206. Great Lakes Environmental Research Laboratory. 1984. *Annual report for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.

269. Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1981. Anomalous breakthrough of benzo(a)pyrene during concentration with XAD-4 resin from aqueous solutions. In *Advances in the identification and analysis of organic pollutants in water*, ed. L.H. Keith, pp. 345-355. Ann Arbor: Ann Arbor Science.
185. Gerould, S.<sup>†</sup>, Landrum, P.F., and Giesy, J.P.<sup>†</sup> 1983. Anthracene bioconcentration and biotransformation in chironomids: Effects of temperature and concentration. *Environ. Pollut.* 30:175-188.
516. Schwab, D.J., Bennett, J.R., Liu, P.C., and Donelan, M.A.<sup>†</sup> 1984. Application of a simple numerical wave prediction model to Lake Erie. *J. Geophys. Res.* 89:3586-3592.
312. McNaught, D.C.<sup>†</sup>, and Scavia, D. 1976. Application of model of zooplankton composition to problems of fish introductions to the Great Lakes. In *Modeling biochemical processes in aquatic ecosystems*, ed. R.P. Canale, pp. 281-304. Ann Arbor: Ann Arbor Science.
90. Chapra, S.C.\* 1980. Application of phosphorus loading models to river-run lakes and other incompletely mixed systems. In *Restoration of lakes and inland waters*, Report No. EPA 440/5-81-010, pp. 329-334. Washington, DC: U.S. Environmental Protection Agency.
91. Chapra, S.C.\* 1980. Application of the phosphorus loading concept to the Great Lakes. In *Phosphorus management strategies for lakes*, ed. R.C. Loehr, C.S. Martin, and W. Rast, pp. 135-152. Ann Arbor: Ann Arbor Science.
292. Liu, P.C. 1977. Applications of empirical fetch-limited spectral formulas to Great Lakes waves. In *Proceedings, 15th coastal engineering conference*, pp. 113-128. New York: American Society of Civil Engineers.
89. Chapra, S.C.\* 1979. Applying phosphorus loading models to embayments. *Limnol. Oceanogr.* 24:163-168.
443. Robertson, A.\* 1977. Availability of information for mapping plankton distributions in the Great Lakes. In *Mapping of the Great Lakes*, ed. D.R. Rosenberger and A. Robertson, pp. 121-126. Windsor, ON: International Joint Commission.
120. Cutchin, D.L.<sup>†</sup>, and Rao, D.B.\* 1976. *Baroclinic and barotropic edge waves on a continental shelf*. Special Report No. 30 prepared by the Department of Energetics and Center for Great Lakes Studies, the University of Wisconsin-Milwaukee.
513. Schwab, D.J., and Hutter, K.<sup>†</sup> 1982. *Barotropic and baroclinic eigenmodes of Lake of Zurich and Lake of Lugano*. Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie Internal Report I 64.
515. Schwab, D.J., and Rao, D.B.\* 1983. Barotropic oscillations of the Mediterranean and Adriatic Seas. *Tellus* 35A:417-427.

560. Vanderploeg, H.A., Parzyck, D.C.<sup>†</sup>, Wilcox, W.H.<sup>†</sup>, Kercher, J.R.<sup>†</sup>, and Kay, S.V.<sup>†</sup> 1975. *Bioaccumulation factors for radionuclides in freshwater biota*. Environmental Sciences Division, Oakridge National Laboratory, Report ORNL-5002, UC-11-Environmental and Earth Sciences.
529. Sonzogni, W.C.\*<sup>†</sup>, Chapra S.C.\*<sup>†</sup>, Armstrong, D.E.<sup>†</sup>, and Logan, T.J.<sup>†</sup> 1981. *Bioavailability of phosphorus inputs to lakes: Significance to management*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
156. Eadie, B.J., Faust, W.R., Landrum, P.F., Morehead, N.R., Gardner, W.S., and Nalepa, T.F. 1982. Bioconcentrations of PAH by some benthic organisms. In *Polynuclear aromatic hydrocarbons: Seventh international symposium on formation, metabolism, and measurement*, ed. M.W. Cooke and A.J. Dennis, pp. 437-449. Columbus, OH: Battelle Press.
325. Nalepa, T.F., White, D.S.<sup>†</sup>, Pringle, C.M.<sup>†</sup>, and Quigley, M.A. 1980. The biological component of phosphorus exchange and cycling in lake sediments. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 93-109. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
554. Thomas, N.A.<sup>†</sup>, Nalepa, T.F., and Robertson, A.\* 1978. Biology-chemistry program during IFYGL. *Verh. Internat. Verein. Limnol.* 20:304-310.
474. Scavia, D. 1977. Book review of *Modeling in Water Management*. *Bioscience* 27:688.
215. Greene, G.M.\* 1981. Breakup of ice cover occurs early on St. Lawrence River in 1981. *Coast. Oceanogr. Climatol. News* 4:2-3.
93. Chapra, S.C.\* 1982. A budget model accounting for the positional availability of phosphorus in lakes. *Water Res.* 16:205-209.
420. Rao, D.B.\* 1977. *Calculating useful products from an oceanographic data base*. Marine Sciences Directorate Manuscript Report Series No. 45. Ottawa, ON: Marine Sciences Directorate.
565. Vanderploeg, H.A., and Scavia, D. 1979. Calculation and use of selectivity coefficients of feeding: Zooplankton grazing. *Ecol. Modeling* 7:135-149.
49. Bennett, J.R., and Schwab, D.J. 1981. Calculation of the rotational normal modes of oceans and lakes with general orthogonal coordinates. *J. Comput. Phys.* 44:359-376.
309. McCormick, M.J., and Scavia, D. 1981. Calculation of vertical profiles of lake-averaged temperature and diffusivity in Lakes Ontario and Washington. *Water Resour. Res.* 17:305-310.

25. Aubert, E.J. 1984. Capabilities of various research organizations to provide information on Great Lakes water quality. NOAA Technical Memorandum ERL GLERL-52.
447. Robertson, A.\* and Eadie, B.J. 1975. A carbon budget for Lake Ontario. *Verh. Internat. Verein. Limnol.* 19:291-299.
286. Leshkevich, G.A. 1981. Categorization of northern Green Bay ice cover using LANDSAT-1 digital data--A case study. NOAA Technical Memorandum ERL GLERL-33.
30. Bell, G.L. 1978. Characteristics of the Oswego River plume and its influence on the nearshore environment. NOAA Technical Memorandum ERL GLERL-22.
180. Gardner, W.S., and Landrum, P.F. 1983. Characterization of ambient levels of ultraviolet-absorbing dissolved humic materials in natural waters by aqueous liquid chromatography. In *Aquatic and terrestrial humic materials*, ed. R.F. Christman and E.T. Gjessing, pp. 203-217. Ann Arbor: Ann Arbor Science.
170. Gardner, W.S., and Eadie, B.J. 1980. Chemical factors controlling phosphorus cycling in lakes. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 13-34. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
530. Sonzogni, W.C.\* Richardson, W.† Rogers, P.†, and Monteith, T.J.† 1981. Chloride budget for the Great Lakes: A current assessment. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
533. Sonzogni, W.C.\* Richardson, W.† Rodgers, P.†, and Monteith, T.J.† 1983. Chloride pollution of the Great Lakes. *J. Water Pollut. Control Fed.* 55:513-521.
96. Chapra, S.C.\* and Tarapchak, S.J. 1976. A chlorophyll  $\alpha$  model and its relationship to phosphorus loading plots for lakes. *Water Resour. Res.* 12:1260-1264.
340. Park, R.A.† Scavia, D., and Clesceri, N.H.† 1975. CLEANER, the Lake George model. In *Ecological modeling in a management framework*, ed. C.S. Russell, pp. 49-82. Washington, DC: Resources for the Future, Inc.
416. Quinn, F.H., and Croley, T.E., II. 1983. Climatic basin water balance models for Great Lakes forecasting and simulation. In *Proceedings, fifth conference on hydrometeorology*, pp. 218-223. Boston: American Meteorological Society.
88. Chapra, S.C.\* 1978. Closure for "Total Phosphorus Model for the Great Lakes." *J. Environ. Eng. Div.*, ASCE EE6:1309-1310.

514. Schwab, D.J., Liu, P.C., Bennett, J.R., Meadows, G.A.<sup>†</sup>, Schultz, H.J.<sup>†</sup>, Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1982. Coastal boundary layer study records response of Lake Erie to storms. *Coast. Oceanogr. Climatol. News* 4:30-31.
307. Malczyk, J.M., and Eadie, B.J. 1980. Collection, preparation, and analysis procedures employed and precision achieved in the chemical field program, 1976-79. GLERL Open File Report.
86. Chapra, S.C.\* 1975. Comment on "An Empirical Method of Estimating the Retention of Phosphorus in Lakes" by W.B. Kirchner and P.J. Dillon. *Water Resour. Res.* 11:1033-1034.
433. Richardson, W.S.<sup>†</sup>, and Schwab, D.J. 1979. Comparison and verification of dynamical and statistical Lake Erie storm surge forecasts. NOAA Technical Memorandum NWS TDL-69.
306. Liu, P.C., Schwab, D.J., and Bennett, J.R. 1984. Comparison of a two-dimensional wave prediction model with synoptic measurements in Lake Michigan. *J. Phys. Oceanogr.* 14:1514-1518.
354. Pickett, R.L.\*<sup>,</sup> and Bermick, S.\* 1975. Comparison of airborne radiation thermometer and buoy temperature measurements. *IFYGL Bull.* 14:76.
489. Scavia, D., and Chapra, S.C.\* 1977. Comparison of an ecological model of Lake Ontario and phosphorus loading models. *J. Fish. Res. Board Can.* 34:286-290.
491. Scavia, D., Powers, W.F.<sup>†</sup>, Canale, R.P.<sup>†</sup>, and Moody, J.F.\* 1981. Comparison of first-order error analysis and Monte Carlo simulation in time-dependent lake eutrophication models. *Water Resour. Res.* 17:1051-1059.
262. Kelley, R.N. 1982. Comparison of Great Lakes consumptive use impacts on water levels under Lake Superior regulation plans "1977" and "55 modification of the 1949 rule." GLERL Open File Report.
351. Pickett, R.L.\*<sup>,</sup> and Richards, F.P.\* 1974. Comparison of July currents from adjacent United States and Canadian buoys. *IFYGL Bull.* 11:107-110.
352. Pickett, R.L.\*<sup>,</sup> and Richards, F.P.\* 1974. Comparison of July temperature statistics from adjacent buoys at station 13. *IFYGL Bull.* 10:93-94.
310. McCormick, M.J., Wharam, B.L.\*<sup>,</sup> and Scavia, D. 1983. Comparison of phytoplankton growth constructs in the context of vertically segmented plankton models. In *Developments in environmental modeling, part 5. Analysis of ecological systems: State-of-the-art in ecological modeling*, ed. W.K. Lauenroth, G.V. Skogerboe, and M. Flug, pp. 663-668. Amsterdam, The Netherlands: Elsevier Science Publishers.

336. Norton, D.C. 1984. *A comparison of precipitation averages as estimators of overbasin precipitation.* GLERL Open File Report.
270. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. Comparison of the disposition of several nitrogen-containing compounds in the sea urchin and other marine invertebrates. *Xenobiotica* 11:351-361.
237. Henderson-Sellers, B.<sup>†</sup>, McCormick, M.J., and Scavia, D. 1983. A comparison of the formulation for eddy diffusion in two one-dimensional stratification models. *Appl. Math. Modeling* 7:212-215.
547. Tarapchak, S.J., and Rubitschun, C.\* 1981. Comparisons of soluble reactive phosphorus and orthophosphorus concentrations at an offshore station in southern lake Michigan. *J. Great Lakes Res.* 7:290-298.
95. Chapra, S.C.\*, and Nossa, G.A.<sup>†</sup> 1974. *A computer program for the modeling of water quality parameters in steady-state multidimensional natural aquatic systems.* Documentation for HAR03. New York: Environmental Protection Agency.
80. Braster, R.E.<sup>†</sup>, Chapra, S.C.\*<sup>†</sup>, and Nossa, G.A.<sup>†</sup> 1975. *A computer program for the steady-state water quality simulation of a stream network.* Documentation for SNSIM1/2. New York: Environmental Protection Agency.
508. Schwab, D.J., and Sellers, D.L.\* 1980. *Computerized bathymetry and shorelines of the Great Lakes.* NOAA Data Report ERL GLERL-16.
9. Assel, R.A. 1983. *A computerized ice concentration data base for the Great Lakes.* NOAA Data Report ERL GLERL-24.
477. Scavia, D. 1980. Conceptual model of phosphorus cycling. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 119-140. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
372. Pinsak, A.P.\*<sup>†</sup>, Hore, R.C.<sup>†</sup>, and Vallery, D.J.<sup>†</sup> 1981. Consumptive water use. In *Great Lakes diversions and consumptive uses: Report to the International Joint Commission by the International Great Lakes Diversions and Consumptive Uses Study Board*, Sec. 6, pp. 1-56. Detroit: U.S. Department of the Army, Corps of Engineers.
22. Aubert, E.J. 1978. Cross-panel considerations. *IFYGL Bull.* 22:96-103.
308. McCall, P.L.<sup>†</sup>, Robbins, J.A., and Matisoff, G.<sup>†</sup> 1984.  $^{137}\text{Cs}$  and  $^{210}\text{Pb}$  transport and geochronologies in urbanized reservoirs with rapidly increasing sedimentation rates. *Chem. Geol.* 44:33-65.
445. Robertson, A.\*<sup>†</sup>, Gehrs, C.W.<sup>†</sup>, Hardin, B.D.<sup>†</sup>, and Hunt, G.W.<sup>†</sup> 1974. *Culturing and ecology of Diaptomus clavipes and Cyclops vernalis.* U.S. Environmental Protection Agency Ecological Research Series EPA-660/3-74-006.

162. Eadie, B.J., Robbins, J.A., Landrum, P.F., Rice, C.P.<sup>†</sup>, Simmons, M.S.<sup>†</sup>, McCormick, M.J., Eisenreich, S.J.<sup>†</sup>, Bell, G.L., Pickett, R.L.<sup>\*</sup>, Johansen, K.<sup>†</sup>, Rossman, R.<sup>†</sup>, Hawley, N., and Voice, T.<sup>†</sup> 1983. *The cycling of toxic organics in the Great Lakes: A 3-year status report.* NOAA Technical Memorandum ERL GLERL-45.
394. Quinn, F.H. 1979. *Derivation and calibration of stage-fall-discharge equations for the Great Lakes connecting channels.* GLERL Open File Report.
10. Assel, R.A. 1983. Description and analysis of a 20-year (1960-79) digital ice-concentration database for the Great Lakes of North America. *Ann. Glaciol.* 4:14-18.
129. Derecki, J.A. 1978. *Description of the method used by the Great Lakes Environmental Research Laboratory to determine flows in the St. Clair and Detroit Rivers for the River Flow Subcommittee.* GLERL Open File Report.
504. Schwab, D.J. 1981. Determination of wind stress from water level fluctuations. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
60. Bolsenga, S.J. 1979. Determining overwater precipitation from overland data: The methodological controversy analyzed. *J. Great Lakes Res.* 5:301-311.
408. Quinn, F.H., and Hagman, J.C.\* 1977. *Detroit and St. Clair River transient models.* NOAA Technical Memorandum ERL GLERL-14.
386. Quinn, F.H. 1976. Detroit River flow characteristics and their application to chemical loading estimates. *J. Great Lakes Res.* 2:71-77.
138. Derecki, J.A. 1984. *Detroit River physical and hydraulic characteristics.* GLERL Open File Report.
169. Gannon, J.E.<sup>†</sup>, and Robertson, A.\* 1978. Development of checklists on Great Lakes biota. *J. Great Lakes Res.* 4:104-105.
181. Gardner, W.S., and Malczyk, J.M. 1983. Discrete injection segmented flow analysis of nutrients in small-volume water samples. *Anal. Chem.* 55:1645-1647.
288. Leversee, G.J.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Landrum, P.F., Bartell, S.<sup>†</sup>, Gerould, S.<sup>†</sup>, Bruno, M.<sup>†</sup>, Spacie, A.<sup>†</sup>, Bonling, J.<sup>†</sup>, Haddock, J.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1981. Disposition of benzo(a)pyrene in aquatic system components: Periphyton, chironomids, daphnia, fish. In *Chemical analysis and biological fate: Polynuclear aromatic hydrocarbons*, ed. M. Cooke and A.J. Dennis, pp. 357-366. Columbus, OH: Battelle Press.
271. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. The disposition of *p*-nitroanisole by the sea urchin, *Strongylocentrotus purpuratus*. I. Kinetics. *Ecotoxicol. Environ. Safety* 5:225-239.

272. Landrum, P.F., and Crosby, D.G.<sup>†</sup> 1981. The disposition of *p*-nitroanisole by the sea urchin, *Strongylocentrotus purpuratus*. II. Biotransformation and bioconcentration. *Ecotoxicol. Environ. Safety* 5:240-254.
149. Eadie, B.J. 1984. Distribution of polycyclic aromatic hydrocarbons in the Great Lakes. In *Toxic contaminants in the Great Lakes*, ed. J.O. Nriagu and M.S. Simmons, pp. 195-211. Wiley Series in Environmental Science and Technology, ed. J.O. Nriagu, vol. 14. New York: John Wiley and Sons.
279. Lang, G.A., and Chapra, S.C.\* 1982. Documentation of SED--A sediment/water column contaminant model. NOAA Technical Memorandum ERL GLERL-41.
485. Scavia, D., and Park, R.A.<sup>†</sup> 1976. Documentation of selected constructs and parameter values in the aquatic model CLEANER. *Ecol. Modeling* 2:33-58.
265. Krezowski, J.R.<sup>†</sup>, Robbins, J.A., and White, D.S.<sup>†</sup> 1984. Dual radio-tracer measurement of zoobenthos-mediated solute and particle transport in freshwater sediments. *J. Geophys. Res.* 89:7937-7947.
71. Bolsenga, S.J., and Kistler, R.D. 1982. A dual spectroradiometer system for measuring spectral reflectances. *J. Appl. Meteorol.* 21:642-647.
290. Liu, P.C. 1974. Duration-limited wave spectra in Lake Ontario during the 1972 Hurricane Agnes (IFYGL). In *Proceedings, 17th conference on Great Lakes research*, pp. 435-444. Ann Arbor: International Association for Great Lakes Research.
48. Bennett, J.R., and Magnell, B.A.<sup>†</sup> 1979. A dynamical analysis of currents near the New Jersey coast. *J. Geophys. Res.* 84:1165-1175.
557. Vanderploeg, H.A. 1979. Dynamics of zinc-65 specific activity and total zinc in benthic fishes on the outer continental shelf off central Oregon. *Mar. Biol.* 52:259-272.
31. Bell, G.L. 1980. *Eastern Lake Ontario and Oswego and Rochester Harbors chemical and physical characteristics data for 1971*. NOAA Data Report ERL GLERL-8.
69. Bolsenga, S.J., and Norton, D.C. 1975. *Eastern Lake Ontario precipitation network*. NOAA Technical Memorandum ERL GLERL-5.
32. Bell, G.L. 1980. *Eastern Lake Superior chemical and physical characteristics data for 1968*. NOAA Data Report ERL GLERL-5.
486. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976. *An ecological model for Lake Ontario: Model formulation, calibration, and preliminary evaluation*. NOAA Technical Report ERL 371-GLERL 12.

487. Scavia, D., Eadie, B.J., and Robertson, A.\* 1976. An ecological model for the Great Lakes. In *Proceedings, conference on environmental modeling and simulation*, ed. W.T. Ott, pp. 629-633. Washington, DC: U.S. Environmental Protection Agency.
478. Scavia, D. 1980. An ecological model of Lake Ontario. *Ecol. Modeling* 8:49-78.
553. Thomann, R.V.†, Scavia, D., Di Toro, D.M.†, and Robertson, A.\* 1981. Ecosystem and water quality modeling. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 353-366. Ann Arbor: Great Lakes Environmental Research Laboratory.
448. Robertson, A.\*, and Scavia, D. 1978. Ecosystem and water quality modeling during IFYGL. *Verh. Internat. Verein. Limnol.* 20:311-316.
353. Pickett, R.L.\*, and Richards, F.P.\* 1974. Editing procedures for analysis of buoy and tower data. *IFYGL Bull.* 11:105-106.
135. Derecki, J.A. 1982. *Effect of channel changes in the St. Clair River since 1900*. NOAA Technical Memorandum ERL GLERL-40.
267. Landrum, P.F. 1982. The effect of co-contaminants on the bioavailability of polycyclic aromatic hydrocarbons to *Pontoporeia hoyi*. In *Polynuclear aromatic hydrocarbons: Seventh international symposium on formation, metabolism, and measurement*, ed. M.W. Cooke and A.J. Dennis, pp. 731-743. Columbus, OH: Battelle Press.
387. Quinn, F.H. 1976. *Effect of Fort Gratiot and St. Clair gage relocations on the apparent hydraulic regime of the St. Clair River*. GLERL Open File Report.
251. Hunt, G.W.†, and Robertson, A.\* 1977. The effect of temperature on reproduction of cyclops vernalis fischer (copepoda, cyclopoida). *Crustaceana* 32:169-177.
136. Derecki, J.A. 1982. *Effect of the 1981 Fort Gratiot gage modifications on the hydraulic regime of the St. Clair River*. GLERL Open File Report.
151. Eadie, B.J., Chambers, R.L.\*, Malczyk, J.M., and Langston, A.L.\* 1978. *The effect of the Grand River spring runoff on Lake Michigan*. International Joint Commission Technical Report.
558. Vanderploeg, H.A. 1981. Effect of the algal length/aperture length ratio on Coulter analysis of lake seston. *Can. J. Fish. Aquat. Sci.* 38:912-916.
242. Huang, J.C.K.\* 1975. Effective cloudiness derived from ocean buoy data. *J. Appl. Meteorol.* 14:240-246.

153. Eadie, B.J., Bell, G.L., Chambers, R.L.\*<sup>\*</sup>, Malczyk, J.M., Stankevich, E.A.\*<sup>\*</sup>, and Langston, A.L.\*<sup>\*</sup> 1980. *The effects of dredging on the chemical characteristics of the Grand River.* NOAA Data Report ERL GLERL-14.
147. Eadie, B.J. 1979. Effects of increased atmospheric CO<sub>2</sub> on the Great Lakes. In *Carbon dioxide effects research and assessment program: Workshop on environmental and societal consequences of a possible CO<sub>2</sub> induced climate change*, pp. 237-250. Washington, DC: U.S. Department of Energy.
561. Vanderploeg, H.A., and Kercher, J.R.<sup>†</sup> 1975. Effects of limnological variables on bioaccumulation factors. In *Radiation research, biomedical, chemical, and physical perspectives*, ed. O.F. Nygaard, H.I. Adler, and W.K. Sinclair, pp. 1192-1204. New York: Academic Press.
373. Pinsak, A.P.\*<sup>\*</sup>, and Rodgers, G.K.<sup>†</sup> 1981. Energy balance. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 169-197. Ann Arbor: Great Lakes Environmental Research Laboratory.
368. Pinsak, A.P.\*<sup>\*</sup>, and Rodgers, G.K.<sup>†</sup> 1974. Energy balance of Lake Ontario. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union*, pp. 86-101. Rockville: National Oceanic and Atmospheric Administration.
371. Pinsak, A.P.\*<sup>\*</sup>, and Rodgers, G.K.<sup>†</sup> 1978. Energy balance panel. *IFYGL Bull.* 22:40-58.
20. Aubert, E.J. 1976. The energy-related Great Lakes research program of the Department of Commerce. In *Proceedings, second federal conference on Great Lakes*, ed. J.S. Marshall, pp. 480-492. Ann Arbor: Great Lakes Basin Commission.
429. Reckhow, K.H.<sup>†</sup>, and Chapra, S.C.\*<sup>\*</sup> 1983. *Engineering approaches for lake management, vol. 1: Data analysis and empirical modeling.* Boston: Butterworth Publishers.
102. Chapra, S.C.\*<sup>\*</sup>, and Reckhow, K.H.<sup>†</sup>, ed. 1983. *Engineering approaches for lake management, vol. 2: Mechanistic modeling.* Boston: Butterworth Publishers.
430. Rice, C.P.<sup>†</sup>, Eadie, B.J., and Erstfeld, K.M.<sup>†</sup> 1982. Enrichment of PCB's in Lake Michigan surface films. *J. Great Lakes Res.* 8:265-270.
370. Pinsak, A.P.\*<sup>\*</sup>, and Meyer, T.L.\*<sup>\*</sup> 1976. *Environmental baseline for Maumee Bay.* Ann Arbor: Great Lakes Basin Commission.
230. Hagman, J.C.\*<sup>\*</sup> 1977. *Environmental information requirements: GLERL user study.* GLERL Open File Report.

537. Steinhart, C.E.<sup>†</sup>, Schierow, L.J.<sup>†</sup>, and Sonzogni, W.C.\* 1982. An environmental quality index for the Great Lakes. *Water Resour. Res.* 18:1025-1031.
540. Sullivan, R.A.<sup>†</sup>, Boise, M.<sup>†</sup>, and Sonzogni, W.C.\* 1981. *Environmental quality maps for the U.S. Great Lakes Basin*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
544. Tarapchak, S.J., and Stoermer, E.T.<sup>†</sup> 1976. *Environmental status of the Lake Michigan Region, vol. 4: Phytoplankton of Lake Michigan*. Report No. ANL/ES-40 prepared for the U.S. Energy Research and Development Administration by GLERL and the University of Michigan under Contract No. W-31-109-ENG-38.
403. Quinn, F.H. 1981. *Equilibrium effects of present Great Lakes Basin consumptive use on lake levels*. GLERL Open File Report.
148. Eadie, B.J. 1981. *An equilibrium model for the partitioning of synthetic organic compounds: Formulation and calibration*. NOAA Technical Memorandum ERL GLERL-35.
155. Eadie, B.J., McCormick, M.J., Rice, C.<sup>†</sup>, Levon, P.\*<sup>\*</sup>, and Simmons, M.<sup>†</sup> 1981. *An equilibrium model for the partitioning of synthetic organic compounds incorporating first-order decomposition*. NOAA Technical Memorandum ERL GLERL-37.
51. Bolsenga, S.J. 1975. Estimating energy budget components to determine Lake Huron evaporation. *Water Resour. Res.* 11:661-666.
1. Adams, C.E., Jr.\* 1976. Estimating water temperatures and time of ice formation on the Saint Lawrence River. *Limnol. Oceanogr.* 21:128-137.
517. Schwab, D.J., and Morton, J.A. 1984. Estimation of overlake wind speed from overland wind speed: A comparison of three methods. *J. Great Lakes Res.* 10:68-72.
291. Liu, P.C. 1976. An evaluation of parameters for the theoretical distribution of periods and amplitudes of sea waves. *J. Geophys. Res.* 81:3161-3162.
453. Rogers, J.C.\* 1976. *Evaluation of techniques for long-range forecasting of air temperature and ice formation*. NOAA Technical Memorandum ERL GLERL-8.
412. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1980. *An evaluation of the climatic impact of the Niagara ice boom relative to air and water temperature and winter severity*. NOAA Technical Memorandum ERL GLERL-30.
415. Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1982. *An evaluation of the impact of the Niagara River ice boom on the air temperature regime at Buffalo, New York*. *J. Appl. Meteorol.* 21:342-349.

77. Boyd, J.D.\*<sup>,</sup> and Eadie, B.J. 1977. Evaluation of U.S. IFYGL chemical data at the master stations. *IFYGL Bull.* 21:49-61.
124. Derecki, J.A. 1975. *Evaporation from Lake Erie.* NOAA Technical Report ERL 342-GLERL 3.
130. Derecki, J.A. 1978. *Evaporation from Lake St. Clair.* NOAA Technical Memorandum ERL GLERL-23.
132. Derecki, J.A. 1980. *Evaporation from Lake Superior.* NOAA Technical Memorandum ERL GLERL-29.
413. Quinn, F.H., and den Hartog, G.<sup>†</sup> 1981. Evaporation synthesis. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 221-245. Ann Arbor: Great Lakes Environmental Research Laboratory.
409. Quinn, F.H., and den Hartog, G.<sup>†</sup> 1978. Evaporation synthesis panel. *IFYGL Bull.* 22:59-68.
450. Robertson, A.\*<sup>,</sup> and Scavia, D. 1979. The examination of ecosystem properties of Lake Ontario through the use of an ecological model. In *Perspectives on lake ecosystem modeling*, ed. D. Scavia and A. Robertson, pp. 281-292. Ann Arbor: Ann Arbor Science.
475. Scavia, D. 1979. Examination of phosphorus cycling and control of phytoplankton dynamics in Lake Ontario with an ecological model. *J. Fish. Res. Board Can.* 36:1336-1346.
98. Chapra, S.C.\*<sup>,</sup> and Reckhow, K.H.<sup>†</sup> 1979. Expressing the phosphorus loading concept in probabilistic terms. *J. Fish. Res. Board Can.* 36:225-229.
227. Haddock, J.D.<sup>†</sup>, Landrum, P.F., and Giesy, J.T.<sup>†</sup> 1983. Extraction efficiency of anthracene from sediments. *Anal. Chem.* 55:1197-1200.
164. Eadie, B.J., Faust, W.R., Landrum, P.F., and Morehead, N.R. 1985. Factors affecting bioconcentration of PAH by the dominant benthic organisms of the Great Lakes. In *Polynuclear aromatic hydrocarbons: Eighth international symposium on mechanisms, methods, and metabolism*, ed. M.W. Cooke and A.J. Dennis, pp. 799-812. Columbus, OH: Battelle Press.
274. Landrum, P.F., Bartell, S.M.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Leversee, G.J.<sup>†</sup>, Bowling, J.W.<sup>†</sup>, Haddock, J.<sup>†</sup>, LaGory, K.<sup>†</sup>, Gerould, S.<sup>†</sup>, and Bruno, M.<sup>†</sup> 1984. Fate of anthracene in an artificial stream: A case study. *Ecotoxicol. Environ. Saf.* 8:183-201.
362. Pinsak, A.P.\*<sup>,</sup> 1975. Federal agency programs: NOAA--Department of Commerce. In *Proceedings, recession rate workshop*, pp. 55-63. Ann Arbor: Great Lakes Basin Commission.

570. Vanderploeg, H.A., Scavia, D., and Liebig, J.R. 1984. Feeding rate of *Diaptomus sicilis* and its relation to selectivity and effective food concentration in algal mixtures and in Lake Michigan. *J. Plankton Res.* 6:919-941.
210. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *First annual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem.* Ann Arbor: Great Lakes Environmental Research Laboratory.
209. Great Lakes Environmental Research Laboratory and the University of Michigan. 1980. *First semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem.* Ann Arbor: Great Lakes Environmental Research Laboratory.
218. Greene, G.M.\* 1983. *Forecasting ice-cover freeze-up, growth, and breakup on the St. Marys River.* NOAA Technical Memorandum ERL GLERL-47.
484. Scavia, D., Boylen, C.W.†, Sheldon, R.B.†, and Park, R.A.† 1975. *The formulation of a generalized model for simulating aquatic macrophyte production.* International Biological Program Eastern Deciduous Forest Biome Memo Report 75-4.
214. Great Lakes Environmental Research Laboratory, the University of Michigan, the University of Minnesota, Michigan State University, Argonne National Laboratory, and Oak Ridge National Laboratory. 1983. *Fourth semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem.* Ann Arbor: Great Lakes Environmental Research Laboratory.
177. Gardner, W.S., Landrum, P.F., and Yates, D.A.† 1982. Fractionation of metal forms in natural waters by size exclusion chromatography with inductively coupled argon plasma detection. *Anal. Chem.* 54:1196-1198.
173. Gardner, W.S., Miller, W.H.†, and Imlay, M.J.† 1981. Free amino acids in mantle tissues of the bivalve *Amblema plicata*: Possible relation to environmental stress. *Bull. Environ. Contam. Toxicol.* 26:157-162.
421. Rao, D.B.\* 1977. Free internal oscillations in a narrow, rotating basin. In *Symposium on modeling of transport mechanisms in oceans and lakes*, pp. 391-398. Ottawa, ON: Marine Sciences Directorate.
503. Schwab, D.J. 1980. *The free oscillations of Lake St. Clair--An application of Lanczos' procedure.* NOAA Technical Memorandum ERL GLERL-32.

239. Hollan, E.<sup>†</sup>, Rao, D.B.\*<sup>\*</sup>, and Bauerle, E.<sup>†</sup> 1980. Free surface oscillations in Lake Constance with an interpretation of the 'Wonder of the Rising Water' at Konstanz in 1549. *Arch. Met. Geoph. Biokl., Ser. A* 29:301-325.
219. Greene, G.M.\*<sup>\*</sup> 1984. *Freeze-up, breakup, and date of maximum ice thickness for the St. Lawrence River--1971-81.* NOAA Data Report ERL GLERL-27.
255. Ischinger, L.S.<sup>†</sup>, and Nalepa, T.F. 1975. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 47:1520-1538.
256. Ischinger, L.S.<sup>†</sup>, and Nalepa, T.F. 1976. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 48:1318-1335.
320. Nalepa, T.F. 1977. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 49:1206-1218.
321. Nalepa, T.F. 1978. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 50:1301-1313.
322. Nalepa, T.F. 1979. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 51:1694-1708.
326. Nalepa, T.F., and Quigley, M.A. 1980. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 52:1686-1703.
378. Quigley, M.A. 1981. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 53:1015-1027.
379. Quigley, M.A. 1982. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 54:868-877.
380. Quigley, M.A. 1983. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 55:833-840.
381. Quigley, M.A. 1984. Freshwater macroinvertebrates. *J. Water Pollut. Control Fed.* 56:774-780.
243. Huang, J.C.K.\*<sup>\*</sup> 1977. *A general circulation model for lakes.* NOAA Technical Memorandum ERL GLERL-16.
339. Park, R.A.<sup>†</sup>, O'Neill, R.U.<sup>†</sup>, Bloomfield, J.A.<sup>†</sup>, Shugart, H.H.<sup>†</sup>, Booth, R.S.<sup>†</sup>, Goldstein, R.A.<sup>†</sup>, Mankin, J.B.<sup>†</sup>, Kounce, J.F.<sup>†</sup>, Scavia, D., Adams, M.S.<sup>†</sup>, Clesceri, L.S.<sup>†</sup>, Colon, E.M.<sup>†</sup>, Dettman, E.H.<sup>†</sup>, Hopps, J.A.<sup>†</sup>, Huff, D.D.<sup>†</sup>, Kutz, S.<sup>†</sup>, Kitchell, J.F.<sup>†</sup>, Kohberger, R.C.<sup>†</sup>, Larow, E.J.<sup>†</sup>, McNaught, D.C.<sup>†</sup>, Peterson, J.L.<sup>†</sup>, Titus, J.E.<sup>†</sup>, Weiler, P.R.<sup>†</sup>, Wilkerson, J.W.<sup>†</sup>, and Zahorak, C.S.<sup>†</sup> 1974. A generalized model for simulating lake ecosystems. *Simulation* 23:33-50.
235. Hawley, N., Chambers, R.L.\*<sup>\*</sup>, and Bell, G.L. 1983. *Grain-size distribution in Lake Michigan, 1977-81.* NOAA Data Report ERL GLERL-21.

507. Schwab, D.J., and Rao, D.B.\* 1977. Gravitational oscillations of Lake Huron, Saginaw Bay, Georgian Bay, and the North Channel. *J. Geophys. Res.* 82:2105-2116.
21. Aubert, E.J. 1976. Great Lakes. In *1976 McGraw-Hill yearbook of science and technology*, ed. D.N. Lapedes, pp. 200-204. New York: McGraw-Hill.
527. Sonzogni, W.C.\* 1982. Great Lakes: A look to the future. In *Oceans 82--Conference proceedings of the Marine Technology Society and the Institute of Electrical and Electronics Engineers*, pp. 1186-1189. Washington, DC: Marine Technology Society and the Institute of Electrical and Electronics Engineers.
367. Pinsak, A.P.\*<sup>†</sup>, ed. 1976. *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*. Ann Arbor: Great Lakes Basin Commission.
106. Croley, T.E., II. 1982. *Great Lakes Basins runoff modeling*. NOAA Technical Memorandum ERL GLERL-39.
109. Croley, T.E., II. 1983. Great Lakes basins (U.S.A.-Canada) runoff modeling. *J. Hydrol.* 64:135-158.
411. Quinn, F.H., Derecki, J.A., and Kelley, R.N. 1979. Great Lakes beginning-of-month water levels and monthly rates of change of storage. *J. Great Lakes Res.* 5:11-17.
350. Pickett, R.L.\* 1983. Great Lakes bottom currents. *Coast. Oceanogr. Climatol. News* 5:41-43.
7. Assel, R.A. 1980. *Great Lakes degree-day and temperature summaries and norms, 1897-1977*. NOAA Data Report ERL GLERL-15.
236. Heidtke, T.M.<sup>†</sup>, Sonzogni, W.C.\*<sup>†</sup>, and Botts, L.<sup>†</sup> 1981. *Great Lakes environmental planning study: Summary report*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
97. Chapra, S.C.\*<sup>†</sup>, and Robertson, A.\*<sup>†</sup> 1977. Great Lakes eutrophication: The effect of point source control of total phosphorus. *Science* 196:1448-1450.
254. International Joint Commission, International Great Lakes Technical Information Network Board, Hydrology Committee. 1983. *Great Lakes hydrometeorological station directory*. NOAA Data Report ERL GLERL-22.
16. Assel, R.A., Quinn, F.H., Leshkevich, G.A., and Bolsenga, S.J. 1983. *Great Lakes ice atlas*. Ann Arbor: Great Lakes Environmental Research Laboratory.
4. Assel, R.A. 1974. *Great Lakes ice cover, winter 1973-74*. NOAA Technical Report ERL 325-GLERL 1.

284. Leshkevich, G.A. 1976. *Great Lakes ice cover, winter 1974-75.* NOAA Technical Report ERL 370-GLERL 11.
285. Leshkevich, G.A. 1977. *Great Lakes ice cover, winter 1975-76.* NOAA Technical Memorandum ERL GLERL-12.
5. Assel, R.A. 1976. Great Lakes ice thickness prediction. *J. Great Lakes Res.* 2:248-255.
534. Sonzogni, W.C.\*<sup>†</sup>, Robertson, A.\*<sup>†</sup>, and Beeton, A.M.<sup>†</sup> 1983. Great Lakes management: Ecological factors. *Environ. Manage.* 7:531-541.
417. Quinn, F.H., and Kelley, R.N. 1983. *Great Lakes monthly hydrologic data.* NOAA Data Report ERL GLERL-26.
377. Preston, C.N.\*<sup>†</sup> 1981. *Great Lakes precipitation, 1854-74.* GLERL Open File Report.
347. Pickett, R.L.\*<sup>†</sup> 1980. *Great Lakes spill model operating instructions.* GLERL Open File Report.
99. Chapra, S.C.\*<sup>†</sup>, and Sonzogni, W.C.\*<sup>†</sup> 1979. Great Lakes total phosphorus budget for the mid-1970's. *J. Water Pollut. Control Fed.* 51:2524-2533.
26. Aubert, E.J., Allen, H.E.<sup>†</sup>, Roseborough, J.D.<sup>†</sup>, and Watson, A.E.P.<sup>†</sup> 1976. *Great Lakes water quality research needs, 1976.* Windsor, ON: International Joint Commission.
222. Grumblatt, J.L.\*<sup>†</sup> 1976. *Great Lakes water temperatures, 1966-75.* NOAA Technical Memorandum ERL GLERL-11-1.
223. Grumblatt, J.L.\*<sup>†</sup> 1976. *Great Lakes water temperatures, 1966-75.* NOAA Technical Memorandum ERL GLERL-11-2 (Full Microfiche Edition).
17. Assel, R.A., Snider, C.R.<sup>†</sup>, and Lawrence, R.<sup>†</sup> 1984. *Great Lakes winter weather and ice conditions for 1982-83.* NOAA Technical Memorandum ERL GLERL-55.
123. Dannelongue, H.H.<sup>†</sup>, Meadows, G.A.<sup>†</sup>, and Pickett, R.L.\*<sup>†</sup> 1981. The growth and decay of nearshore circulation. In *Proceedings of mechanics of oil slicks conference*, pp. 107-120. Paris, France: International Association for Hydraulic Research.
315. Miller, G.S. 1976. *Harbor and nearshore currents, Oswego Harbor, New York.* NOAA Technical Report ERL 360-GLERL 7.
225. Grumblatt, J.L.\*<sup>†</sup> 1977. *Heat advection in Lake Ontario, 1972-73.* GLERL Open File Report.
125. Derecki, J.A. 1976. Heat storage and advection in Lake Erie. *Water Resour. Res.* 12:1144-1150.

303. Liu, P.C., and Green, A.W.<sup>†</sup> 1979. Higher order wave spectra. In *Proceedings, 16th coastal engineering conference*, pp. 360-371. New York: American Society of Civil Engineers.
183. Gaskill, D.W.\* 1981. *Homogeneity analysis of seasonal mean temperature series at 25 stations around the Great Lakes*. NOAA Data Report ERL GLERL-18.
289. Leversee, G.J.<sup>†</sup>, Landrum, P.F., Giesy, J.P.<sup>†</sup>, and Fannin, T.<sup>†</sup> 1983. Humic acids reduce bioaccumulation of some polycyclic aromatic hydrocarbons. *Can. J. Fish. Aquat. Sci.* 40:63-69.
376. Potok, A.J.\*<sup>,</sup> and Quinn, F.H. 1979. A hydraulic transient model of the upper St. Lawrence River for water resources studies. *Water Resour. Bull.* 15:1538-1555.
104. Croley, T.E., II. 1980. *Hydrologic and hydraulic calculation in BASIC for small computers*. Iowa City, IA: The University of Iowa, Iowa Institute of Hydraulic Research.
392. Quinn, F.H. 1978. Hydrologic response model of the North American Great Lakes. *J. Hydrol.* 37:295-307.
141. Derecki, J.A., and Potok, A.J.\* 1978. *Hydrometeorological data system for the Great Lakes, appendix D: Evaluation of runoff simulation for southeast Michigan with SSARR watershed model*. Chicago: U.S. Army Corps of Engineers, North Central District.
126. Derecki, J.A. 1976. Hydrometeorology: Climate and hydrology of the Great Lakes. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 71-104. Ann Arbor: Great Lakes Basin Commission.
238. Hinkel, K.M.\* 1983. *Ice-cover growth rates at nearshore locations in the Great Lakes*. NOAA Technical Memorandum ERL GLERL-44.
521. Sleator, F.E.\* 1978. *Ice thickness and stratigraphy at nearshore locations on the Great Lakes (English units)*. NOAA Data Report ERL GLERL-1-1.
522. Sleator, F.E.\* 1978. *Ice thickness and stratigraphy at nearshore locations on the Great Lakes (metric units)*. NOAA Data Report ERL GLERL-1-2.
224. Grumblatt, J.L.\* 1976. IFYGL--An unusually cold year. *IFYGL Bull.* 18:59-62.
259. Jenkins, C.F.\*<sup>,</sup> ed. 1980. *IFYGL atlas--Lake Ontario summary data*. Ann Arbor: Great Lakes Environmental Research Laboratory.
150. Eadie, B.J., and Robertson, A.\* 1976. An IFYGL carbon budget for Lake Ontario. *J. Great Lakes Res.* 2:307-323.

446. Robertson, A.\*<sup>†</sup>, Elder, F.C.<sup>†</sup>, and Davies, T.T.<sup>†</sup> 1974. IFYGL chemical intercomparisons (IFYGL). In *Proceedings, 17th conference on Great Lakes research*, pp. 682-696. Ann Arbor: International Association for Great Lakes Research.
81. Callahan, C.J.<sup>†</sup>, McCulloch, J.A.W.<sup>†</sup>, Aubert, E.J., and Rasmussen, E.M.<sup>†</sup> 1976. *IFYGL rawinsonde data acquisition system*. IFYGL Technical Manual No. 6.
19. Aubert, E.J. 1974. IFYGL: Scientific overview. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union*, pp. 8-21. Rockville: National Oceanic and Atmospheric Administration.
301. Liu, P.C., and Kessenich, T.A.\* 1976. IFYGL shipboard visual wave observations vs. wave measurements. *J. Great Lakes Res.* 2:33-42.
28. Aubert, E.J., and Richards, T.L.<sup>†</sup>, ed. 1981. *IFYGL--The International Field Year for the Great Lakes*. Ann Arbor: Great Lakes Environmental Research Laboratory.
44. Bennett, E.B.<sup>†</sup>, and Saylor, J.H. 1974. IFYGL water movement program--A post field work review. In *Proceedings, IFYGL symposium, 55th annual meeting of the American Geophysical Union*, pp. 102-127. Rockville: National Oceanic and Atmospheric Administration.
79. Bradbury, J.P.<sup>†</sup>, Tarapchak, S.J., Waddington, J.C.B.<sup>†</sup>, and Wright, R.F.<sup>†</sup> 1975. The impact of a forest fire on a wilderness lake in north-eastern Minnesota. *Verh. Internat. Verein. Limnol.* 19:875-883.
397. Quinn, F.H. 1980. *Impact of increased consumptive use on Great Lakes water levels*. GLERL Open File Report.
186. Giaquinta, A.R.<sup>†</sup>, and Croley, T.E., II. 1981. Impact of thermal standards on power plant water consumption. *Water Resour. Bull.* 17:423-430.
473. Scavia, D. 1974. *Implementation of a pelagic ecosystem model for lakes*. International Biological Program Eastern Deciduous Forest Biome--IBP Report 74-4.
531. Sonzogni, W.C.\*<sup>†</sup>, Robertson, A.\*<sup>†</sup>, and Beeton, A.M.<sup>†</sup> 1981. *The importance of ecological factors in Great Lakes management*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
395. Quinn, F.H. 1979. An improved aerodynamic evaporation technique for large lakes with application to the International Field Year for the Great Lakes. *Water Resour. Res.* 15:935-940.
143. Derecki, J.A., and Kelley, R.N. 1981. *Improved St. Clair River dynamic flow models and comparison analysis*. NOAA Technical Memorandum ERL GLERL-34.

73. Bowers, J.A.<sup>†</sup>, and Vanderploeg, H.A. 1982. In situ predatory behavior of *Mysis relicta* in Lake Michigan. *Hydrobiologia* 93:121-131.
166. Fahnstiel, G.L., Schelske, C.L.<sup>†</sup>, and Moll, R.A.<sup>†</sup> 1984. In situ quantum efficiency of Lake Superior phytoplankton. *J. Great Lakes Res.* 10:399-406.
273. Landrum, P.F., and Scavia, D. 1983. Influence of sediment on anthracene uptake, depuration, and biotransformation by the amphipod *Hyalella azteca*. *Can. J. Fish. Aquat. Sci.* 40:298-305.
398. Quinn, F.H. 1980. *Intercomparison analysis of Detroit River dynamic flow models*. GLERL Open File Report.
341. Pickett, R.L.\* 1975. Intercomparison of Canadian and U.S. automatic data buoys. *Mar. Technol. Soc. J.* 9:20-22.
499. Schwab, D.J. 1977. Internal free oscillations in Lake Ontario. *Limnol. Oceanogr.* 22:700-708.
369. Pinsak, A.P.\*<sup>†</sup>, and Meyer, T.L.\* 1975. *Internal report for Maumee River Basin level B study*. Ann Arbor: Great Lakes Basin Commission.
252. Hutter, K.<sup>†</sup>, and Schwab, D.J. 1982. *Internal report on baroclinic channel models*. Report prepared by Versuchsanstalt für Wasserbau, Hydrologie und Glaziologie.
257. Jenkins, C.F.\* 1975. The International Field Year for the Great Lakes. *Great Lakes Basin Comm. Commun.* 6:5-6.
432. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1981. The International Field Year for the Great Lakes--An introduction. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 1-14. Ann Arbor: Great Lakes Environmental Research Laboratory.
563. Vanderploeg, H.A., and Booth, R.S.<sup>†</sup> 1976. Interpretation of biological-rate coefficients derived from radionuclide content, radionuclide concentration, and specific activity experiments. *Health Phys.* 31:57-59.
567. Vanderploeg, H.A., and Ondricek-Fallscheer, R.L.\* 1982. Intersetule distances are a poor predictor of particle-retention efficiency in *Diaptomus sicilis*. *J. Plankton Res.* 4:237-244.
232. Hawley, N. 1983. Intertidal sedimentary structures on macrotidal beaches. *J. Sediment. Petrol.* 52:785-796.
174. Gardner, W.S., and Miller, W.H.<sup>†</sup> 1981. Intracellular composition and net release rates of free amino acids in *Daphnia magna*. *Can. J. Fish. Aquat. Sci.* 38:157-162.
431. Richards, T.L.<sup>†</sup>, and Aubert, E.J. 1978. Introduction. *IFYGL Bull.* 22:1-3.

505. Schwab, D.J. 1982. An inverse method for determining wind stress from water-level fluctuations. *Dyn. Atmos. Oceans* 6:251-278.
471. Saylor, J.H., and Miller, G.S. 1983. *Investigation of the currents and density structure of Lake Erie*. NOAA Technical Memorandum ERL GLERL-49.
298. Liu, P.C. 1984. An iteration problem. *SIAM Rev.* 26:279.
296. Liu, P.C. 1983. An iteration problem: Problem 83-9. *SIAM Rev.* 25:268.
449. Robertson, A.\*, and Jenkins, C.F.\* 1978. The joint Canadian-American study of Lake Ontario. *Ambio* 7:107-112.
258. Jenkins, C.F.\* 1978. The joint Canadian-U.S. Great Lakes research project, IFYGL. *Ambio* 7:98-105.
460. Sackett, W.M.†, Poag, C.W.†, and Eadie, B.J. 1974. Kerogen recycling in the Ross Sea, Antarctica. *Science* 185:1045-1047.
175. Gardner, W.S., and Scavia, D. 1981. Kinetic examination of nitrogen release by zooplankters. *Limnol. Oceanogr.* 26:801-810.
493. Scavia, D., and Gardner, W.S. 1982. Kinetics of nitrogen and phosphorus release in varying food supplies by *Daphnia magna*. *Hydrobiologia* 96:105-111.
342. Pickett, R.L.\* 1975. Lake-averaged temperatures and currents in Lake Ontario in 1972. *IFYGL Bull.* 15:57-58.
348. Pickett, R.L.\* 1980. Lake currents. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 245-276. Ann Arbor: Great Lakes Environmental Research Laboratory.
406. Quinn, F.H., and Derecki, J.A. 1976. *Lake Erie beginning-of-month water levels and monthly rates of change of storage*. NOAA Technical Report ERL 364-GLERL 9.
33. Bell, G.L. 1980. *Lake Erie chemical and physical characteristics data for 1965*. NOAA Data Report ERL GLERL-2.
34. Bell, G.L. 1980. *Lake Erie chemical and physical characteristics data for 1967*. NOAA Data Report ERL GLERL-4.
510. Schwab, D.J., Liu, P.C., Bennett, J.R., and Meadows, G.A.† 1981. Lake Erie coastal boundary layer study measures flux of energy during storms. *Coast. Oceanogr. Climatol. News* 4:10.
423. Rao, D.B.\* 1979. Lake Erie dynamics experiment planned. *Coast. Oceanogr. Climatol. News* 1:25.
333. National Research Council, Panel on Niagara River Ice Boom Investigations. 1983. *The Lake Erie-Niagara River ice boom: Operations and impacts*. Washington, DC: National Academy Press.

11. Assel, R.A. 1983. *Lake Erie regional ice cover analysis: Preliminary results*. NOAA Technical Memorandum ERL GLERL-48.
127. Derecki, J.A. 1976. Lake Erie terrestrial radiation. *Water Resour. Res.* 12:979-984.
383. Quinn, F.H. 1975. *Lake Huron beginning-of-month water levels and monthly rates of change of storage*. NOAA Technical Report ERL 348-GLELR 4.
35. Bell, G.L. 1980. *Lake Huron chemical and physical characteristics data for 1966*. NOAA Data Report ERL GLERL-3.
52. Bolsenga, S.J. 1976. Lake Huron surface water temperature, May-November 1966. *Water Resour. Bull.* 12:147-156.
468. Saylor, J.H., and Miller, G.S. 1979. Lake Huron winter circulation. *J. Geophys. Res.* 84:3237-3252.
399. Quinn, F.H. 1980. Lake ice. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 139-161. Ann Arbor: Great Lakes Environmental Research Laboratory.
53. Bolsenga, S.J. 1977. Lake-land precipitation relationships using northern Lake Michigan data. *J. Appl. Meteorol.* 16:1158-1164.
384. Quinn, F.H. 1975. *Lake Michigan beginning-of-month water levels and monthly rates of change of storage*. NOAA Technical Report ERL 326-GLELR 2.
233. Hawley, N. 1983. *Lake Michigan suspended sediment characteristics at Grand Haven, Michigan, 1979*. NOAA Data Report ERL GLERL-23.
334. Norton, D.C. 1975. *Lake Ontario Basin: Overland precipitation, 1972-73*. NOAA Technical Memorandum ERL GLERL-1.
116. Croley, T.E., II, and Hartmann, H.C. 1983. *Lake Ontario Basin runoff modeling*. NOAA Technical Memorandum ERL GLERL-43.
110. Croley, T.E., II. 1983. Lake Ontario Basin (U.S.A.-Canada) runoff modeling. *J. Hydrol.* 66:101-121.
385. Quinn, F.H. 1975. Lake Ontario beginning-of-month levels and changes in storage. *IFYGL Bull.* 15:59-65.
407. Quinn, F.H., and Derecki, J.A. 1976. *Lake Ontario beginning-of-month water levels and monthly rates of change of storage*. NOAA Technical Report ERL 365-GLELR 10.
36. Bell, G.L. 1980. *Lake Ontario chemical and physical characteristics data for 1972*. NOAA Data Report ERL GLERL-9.
343. Pickett, R.L.\* 1976. Lake Ontario circulation in November. *Limnol. Oceanogr.* 21:608-611.

266. Lake Hydrology Group. 1976. *Lake Ontario IFYGL ice studies data report*. GLERL Open File Report.
356. Pickett, R.L.\* and Eadie, B.J. 1976. Lake Ontario mean surface temperature. *IFYGL Bull.* 17:59.
355. Pickett, R.L.\* and Richards, F.P.\* 1975. Lake Ontario mean temperatures and currents in July 1972. *J. Phys. Oceanogr.* 5:775-781.
357. Pickett, R.L.\* and Bermick, S.\* 1976. Lake Ontario mechanical energy. *IFYGL Bull.* 18:56-58.
344. Pickett, R.L.\* 1976. Lake Ontario temperature and current profiles. *IFYGL Bull.* 18:53-55.
37. Bell, G.L. 1980. *Lake St. Clair and St. Clair and Detroit Rivers chemical and physical characteristics data for 1974*. NOAA Data Report ERL GLERL-12.
261. Kelley, R.N. 1976. *Lake St. Clair beginning-of-month water levels and monthly rates of change of storage*. NOAA Technical Report ERL 372-GLERL 13.
388. Quinn, F.H. 1976. *Lake St. Clair hydrologic transfer factors*. NOAA Technical Memorandum ERL GLERL-10.
111. Croley, T.E., II. 1983. *Lake Superior Basin runoff modeling*. GLERL Open File Report.
117. Croley, T.E., II, and Hartmann, H.C. 1984. *Lake Superior Basin runoff modeling*. NOAA Technical Memorandum ERL GLERL-50.
283. Leshkevich, G.A. 1975. *Lake Superior bathythermograph data*. NOAA Technical Memorandum ERL GLERL-3.
12. Assel, R.A. 1983. *Lake Superior bathythermograph data: 1973-79*. NOAA Data Report ERL GLERL-25.
424. Rao, D.B.\* 1979. Lake Superior heat storage study continued. *Coast. Oceanogr. Climatol. News* 1:21.
287. Leshkevich, G.A. 1981. *Lake Superior ice cycle--1979 (16-mm film)*. Ann Arbor: Great Lakes Environmental Research Laboratory. 12 min.
393. Quinn, F.H. 1978. Lake Superior regulation effects. *Water Resour. Bull.* 14:1129-1142.
400. Quinn, F.H. 1980. Lake water levels and changes in storage. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 130-134. Ann Arbor: Great Lakes Environmental Research Laboratory.
444. Robertson, A.\* 1982. Lakes--Coastal ecology. In *Encyclopedia of beaches and coastal environments*, ed. M.L. Schwartz, pp. 506-508. Stroudsburg, PA: Hutchinson-Ross.

524. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1976. Large-scale current measurements in Lake Huron. *J. Geophys. Res.* 81:3069-3078.
525. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1976. Large-scale current measurements in Lake Superior. NOAA Technical Report ERL 363-GLERL 8.
571. Whiteside, M.C.<sup>†</sup>, Bradbury, J.P.<sup>†</sup>, and Tarapchak, S.J. 1980. The limnology of the Klutan moraine lakes. *Quat. Res.* 14:130-148.
454. Rogers, J.C.\* 1976. Long-range forecasting of maximum ice extent on the Great Lakes. NOAA Technical Memorandum ERL GLERL-7.
94. Chapra, S.C.\* 1982. Long-term models of interactions between solids and contaminants in lakes. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
327. Nalepa, T.F., and Quigley, M.A. 1980. The macro- and meiofauna of southeastern Lake Michigan near the mouth of the Grand River, 1976-77. NOAA Data Report ERL GLERL-17.
328. Nalepa, T.F., and Quigley, M.A. 1981. The macro- and meiofauna of southeastern Lake Michigan near the mouth of the Grand River, 1978-79. NOAA Data Report ERL GLERL-19.
365. Pinsak, A.P.\* 1979. Major users and current consumptive use of water in the Great Lakes Basin. In *International Great Lakes diversions and consumptive uses study*, pp. 9.1-9.9. Detroit: U.S. Department of the Army, Corps of Engineers.
168. Fraser, A.S.<sup>†</sup>, and Robertson, A.\* 1981. Materials balance. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 341-352. Ann Arbor: Great Lakes Environmental Research Laboratory.
65. Bolsenga, S.J. 1982. Mathematical models of slope development--A review. GLERL Open File Report.
8. Assel, R.A. 1980. Maximum freezing degree-days as a winter severity index for the Great Lakes, 1897-1977. *Mon. Wea. Rev.* 108:1440-1445.
498. Schelske, C.L.<sup>†</sup>, Eadie, B.J., and Krausse, G.L.<sup>†</sup> 1984. Measured and predicted fluxes of biogenic silica in Lake Michigan. *Limnol. Oceanogr.* 29:99-110.
122. Danek, L.J.\*<sup>,</sup> and Saylor, J.H. 1977. Measurement of the summer currents in Saginaw Bay, Michigan. *J. Great Lakes Res.* 3:65-71.
523. Sloss, P.W.\*<sup>,</sup> and Saylor, J.H. 1975. Measurements of current flow during summer in Lake Huron. NOAA Technical Report ERL 353-GLERL 5.

542. Tarapchak, S.J. 1980. Measurements of phosphate-phosphorus in lake water. In *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*, ed. D. Scavia and R.A. Moll, pp. 1-11. Great Lakes Research Division, the University of Michigan, Special Report No. 83.
568. Vanderploeg, H.A., Bowers, J.A.<sup>†</sup>, Chapelski, O.<sup>†</sup>, and Soo, H.K. 1982. Measuring in situ predation by *Mysis relicta* and observations on underdispersed microdistributions of zooplankton. *Hydrobiologia* 93:109-119.
282. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1984. Measuring the ecological significance of microscale nutrient patches. *Limnol. Oceanogr.* 29:214-216.
76. Boyd, J.D.\* 1980. Metalimnetic oxygen minima in Lake Ontario, 1972. *J. Great Lakes Res.* 6:95-100.
263. Kohberger, R.C.<sup>†</sup>, Scavia, D., and Wilkinson, J.W.<sup>†</sup> 1978. A method for parameter sensitivity analysis in differential equation models. *Water Resour. Res.* 14:25-29.
427. Rao, D.B.\*<sup>†</sup>, and Schwab, D.J. 1981. A method of objective analysis for currents in a lake with application to Lake Ontario. *J. Phys. Oceanogr.* 11:739-750.
178. Gardner, W.S., and Vanderploeg, H.A. 1982. Microsample-filtering device for liquid chromatography or flow injection analysis. *Anal. Chem.* 54:2129-2130.
280. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982. Microscale nutrient patches produced by zooplankton. *Proc. Natl. Acad. Sci.* 79:5001-5005.
281. Lehman, J.T.<sup>†</sup>, and Scavia, D. 1982. Microscale patchiness of nutrients in plankton communities. *Science* 216:729-730.
171. Gardner, W.S., Eadie, B.J., and Miller, W.H.<sup>†</sup> 1980. Microtechnique to remove particles from high performance liquid chromatographic samples. *J. Liq. Chromatogr.* 3:1585-1592.
145. Donovan, M.<sup>†</sup>, Job, C.A.<sup>†</sup>, and Sonzogni, W.C.\* 1981. The Milwaukee pollution case--Implications for water resources planning. *Water Resour. Bull.* 17:23-28.
277. Lang, G.A. 1983. The Mineral River--A unique tributary chloride load to Lake Superior. *J. Great Lakes Res.* 9:584-587.
360. Pickett, R.L.\*<sup>†</sup>, and Dossett, D.A.\* 1979. Mirex and the circulation of Lake Ontario. *J. Phys. Oceanogr.* 9:441-445.
569. Vanderploeg, H.A., and Scavia, D. 1983. Misconceptions about estimating prey preference. *Can. J. Fish. Aquat. Sci.* 40:248-250.

2. Allender, J.H.<sup>†</sup>, and Saylor, J.H. 1979. Model and observed circulation throughout the annual temperature cycle of Lake Michigan. *J. Phys. Oceanogr.* 9:573-579.
46. Bennett, J.R. 1977. A model of Lake Ontario's circulation. *IFYGL Bull.* 21:38-43.
436. Robbins, J.A., and Eadie, B.J. 1982. Models of contaminants in Great Lakes. *Res. Oceanogr. Eng.* 4:3.
128. Derecki, J.A. 1976. Multiple estimates of Lake Erie evaporation. *J. Great Lakes Res.* 2:124-149.
113. Croley, T.E., II, and Hunt, B.<sup>†</sup> 1981. Multiple-valued and non-convergent solutions in kinematic cascade models. *J. Hydrol.* 49:121-138.
82. Chambers, R.L.\*<sup>,</sup>, and Upchurch, S.B.<sup>†</sup> 1979. Multivariate analysis of sedimentary environments using grain-size frequency distributions. *Math. Geol.* 11:27-43.
461. Saylor, J.H. 1974. Nearshore bottom stability in relation to changing lake levels. In *Proceedings, technical conference on Lake Michigan shoreland planning*, pp. 42-55. Chicago: Lake Michigan Federation.
83. Chambers, R.L.\*<sup>,</sup>, and Eadie, B.J. 1980. *Nearshore chemistry in the vicinity of the Grand River, Michigan*. NOAA Technical Memorandum ERL GLERL-28.
67. Bolsenga, S.J. 1984. Nearshore Great Lakes ice thicknesses and stratigraphics. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 23-30. Ann Arbor: Great Lakes Environmental Research Laboratory.
479. Scavia, D. 1980. The need for innovative verification of eutrophication models. In *Workshop on verification of water quality models*, EPA Report No. EPA-600/9-80-016, pp. 214-225. Athens, GA: Environmental Protection Agency.
85. Chambers, R.L.\*<sup>,</sup>, and Eadie, B.J. 1981. Nepheloid and suspended particulate matter in southeastern Lake Michigan. *Sedimentology* 28:439-447.
62. Bolsenga, S.J. 1980. *New observations on the daily variations of natural ice albedo*. NOAA Technical Memorandum ERL GLERL-27.
441. Robertson, A.\* 1975. A new species of Diaptomus (copepoda, calonoida) from Oklahoma and Texas. *Am. Midl. Nat.* 93:206-214.
459. Rumer, R.R., Jr.<sup>†</sup>, Bialas, W.F.<sup>†</sup>, Quinn, F.H., Assel, R.A., and Gaskill, D.W.\* 1983. Niagara River ice boom: Effects on environment. *J. Tech. Topics Civil Eng.* 109:105-116.

179. Gardner, W.S., and Paffenhofer, G.A.<sup>†</sup> 1982. Nitrogen regeneration by the subtropical marine copepod *Eucalanus pileatus*. *J. Plankton Res.* 4:725-734.
452. Robertson, A.\*<sup>,</sup> and Scavia, D. 1984. North American Great Lakes. In *Lakes and reservoirs*, ed. F.B. Taub, pp. 135-176. Amsterdam, The Netherlands: Elsevier Science Publishers.
38. Bell, G.L. 1980. *Northern Lake Michigan chemical and physical characteristics data for 1970*. NOAA Data Report ERL GLERL-7.
428. Reckhow, K.H.<sup>†</sup>, and Chapra, S.C.\* 1979. A note on error analysis for a phosphorus retention model. *Water Resour. Res.* 15:1643-1646.
131. Derecki, J.A. 1979. Note on estimates of Lake St. Clair evaporation. *J. Great Lakes Res.* 5:216-220.
401. Quinn, F.H. 1980. Note on wind stress effects on Detroit River discharges. *J. Great Lakes Res.* 6:172-175.
532. Sonzogni, W.C.\*<sup>,</sup> and Simmons, M.S.<sup>†</sup> 1981. *Notes on Great Lakes trace metal and toxic organic contaminants*. GLERL Open File Report.
247. Huang, J.C.K.\* 1979. Numerical case studies for oceanic thermal anomalies with a dynamic model. *J. Geophys. Res.* 84:5717-5726.
234. Hawley, N. 1983. *A numerical model of cohesive suspended sediment dynamics*. NOAA Technical Memorandum ERL GLERL-42.
422. Rao, D.B.\* 1978. A numerical procedure for computing resonant periods of natural water bodies. In *Proceedings, conference on tsunamis*, pp. 159-165. Ottawa, ON: Marine Sciences Directorate.
506. Schwab, D.J. 1983. Numerical simulation of low-frequency current fluctuations in Lake Michigan. *J. Phys. Oceanogr.* 13:2213-2224.
245. Huang, J.C.K.\* 1978. Numerical simulation studies of oceanic anomalies in the north Pacific Basin. I: The ocean model and the long-term mean state. *J. Phys. Oceanogr.* 8:755-778.
248. Huang, J.C.K.\* 1979. Numerical simulation studies for oceanic anomalies in the north Pacific Basin. II: Seasonally varying motions and structures. *J. Phys. Oceanogr.* 9:37-56.
419. Rao, D.B.\* 1975. Numerical studies of the response of lakes to atmospheric forcing. In *Proceedings, second world congress, International Water Resources Association*, vol. III, pp. 369-375. New Delhi: International Water Resources Association.
497. Scavia, D., and Moll, R.A.<sup>†</sup>, ed. 1980. *Nutrient cycling in the Great Lakes: A summarization of factors regulating the cycling of phosphorus*. Great Lakes Research Division, the University of Michigan, Special Report No. 83.

101. Chapra, S.C.\* Scavia, D., Lang, G.A., and Reckhow, K.H.<sup>†</sup> 1983. Nutrient food chain models. In *Engineering approaches for lake management, vol. 2: Mechanistic modeling*, ed. S.C. Chapra and K.H. Reckhow, pp. 243-351. Boston: Butterworth Publishers.
167. Fahnenstiel, G.L., Scavia, D., and Schelske, C.L.<sup>†</sup> 1984. Nutrient-light interactions in the Lake Michigan subsurface chlorophyll layer. *Verh. Internat. Verein. Limnol.* 22:440-444.
500. Schwab, D.J. 1977. An objective analysis scheme for lake currents. *IFYGL Bull.* 19:50-52.
349. Pickett, R.L.\* 1980. Observed and predicted Great Lakes winter circulation. *J. Phys. Oceanogr.* 10:1140-1145.
358. Pickett, R.L.\* and Bermick, S.\* 1977. Observed resultant circulation of Lake Ontario. *Limnol. Oceanogr.* 22:1071-1076.
345. Pickett, R.L.\* 1977. The observed winter circulation of Lake Ontario. *J. Phys. Oceanogr.* 7:152-156.
241. Huang, J.C.K.\* 1974. Ocean/atmosphere dynamically coupled model for climatic study. In *Monograph IV*, pp. (6-210)-(6-216). Washington, DC: Department of Transportation, Climatic Impact Assessment Program.
253. Hutter, K.<sup>†</sup>, Salvadè, G.<sup>†</sup>, and Schwab, D.J. 1983. On internal wave dynamics in the northern basin of the Lake of Lugano. *Geophys. Astrophys. Fluid Dyn.* 27:299-336.
70. Bolsenga, S.J., and Hagman, J.C.\* 1975. On the selection of representative stations for Thiessen polygon networks to estimate Lake Ontario over-water precipitation. *IFYGL Bull.* 16:57-62.
229. Hagman, B.B.\* 1976. On the use of microwave radiation for Great Lakes ice surveillance. NOAA Technical Memorandum ERL GLERL-13.
56. Bolsenga, S.J. 1978. On the use of multispectral radar to define certain characteristics of Great Lakes ice. NOAA Technical Memorandum ERL GLERL-17.
359. Pickett, R.L.\* and Rao, D.B.\* 1977. One- and two-gyre circulations in homogeneous lakes. *IFYGL Bull.* 19:45-49.
133. Derecki, J.A. 1981. Operational estimates of Lake Superior evaporation based on IFYGL findings. *Water Resour. Res.* 17:1453-1462.
456. Rogers, J.C.\* DeWitt, B.H.<sup>†</sup>, and Dixon, D.<sup>†</sup> 1975. Operational ice forecast for the Little Rapids Cut. NOAA Technical Memorandum ERL GLERL-4.
314. Meyers, P.A.<sup>†</sup>, Leenheer, M.J.<sup>†</sup>, Eadie, B.J., and Maule, S.J.<sup>†</sup> 1984. Organic geochemistry of suspended and settling particulate matter in Lake Michigan. *Geochim. Cosmochim. Acta* 48:443-452.

39. Bell, G.L. 1980. *Oswego Harbor, New York, chemical and physical characteristics data for 1972*. NOAA Data Report ERL GLERL-10.
548. Tarapchak, S.J., Bigelow, S.M.\*<sup>†</sup>, and Rubitschun, C.\*<sup>†</sup> 1982. Overestimation of orthophosphorus concentrations in surface waters of southern Lake Michigan: Effects of acid and ammonium molybdate. *Can. J. Fish. Aquat. Sci.* 39:296-304.
518. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984. "Pathfinder"--A trajectory prediction system for the Great Lakes. NOAA Technical Memorandum ERL GLERL-53.
182. Gardner, W.S., Nalepa, T.F., Slavens, D.R.\*<sup>†</sup>, and Laird, G.A. 1983. Patterns and rates of nitrogen release by benthic Chironomidae and Oligochaeta. *Can. J. Fish. Aquat. Sci.* 40:259-266.
165. Edgington, D.N.<sup>†</sup>, and Robbins, J.A. 1983. Patterns of deposition of natural and fallout radionuclides in the sediments of Lake Michigan and their relation to limnological processes. In *Environmental biochemistry*, ed. J.O. Nriagu, pp. 705-729. Ann Arbor: Ann Arbor Science.
221. Greene, G.M.\*<sup>†</sup>, and Nelson, F.<sup>†</sup> 1983. Performance of a frost hollow as a hemispherical thermal radiometer. *Arch. Met. Geoph. Biocl., Ser. B* 32:263-278.
535. Sonzogni, W.C.\*<sup>†</sup>, and Swain, W.R.<sup>†</sup> 1984. Perspectives on human health concerns from Great Lakes contaminants. In *Toxic contaminants in the Great Lakes*, ed. J.O. Nriagu and M.S. Simmons, pp. 1-29. Wiley Series in Environmental Science and Technology, ed. J. O. Nriagu, vol. 14. New York: John Wiley and Sons.
496. Scavia, D., and Robertson, A.\*<sup>†</sup>, ed. 1979. *Perspectives on lake ecosystem modeling*. Ann Arbor: Ann Arbor Science.
528. Sonzogni, W.C.\*<sup>†</sup>, and Swain, W.R.<sup>†</sup> 1980. Perspectives on U.S. Great Lakes chemical toxic substances research. *J. Great Lakes Res.* 6:265-274.
332. Nalepa, T.F., Gardner, W.S., and Malczyk, J.M. 1983. Phosphorus release by three kinds of benthic invertebrates: Effects of substrate and water medium. *Can. J. Fish. Aquat. Sci.* 40:810-813.
494. Scavia, D., and McFarland, M.J.<sup>†</sup> 1982. Phosphorus release patterns and the effects of reproductive stage and ecdysis in *Daphnia magna*. *Can. J. Fish. Aquat. Sci.* 39:1310-1314.
337. Oris, J.T.<sup>†</sup>, Giesy, J.P.<sup>†</sup>, Allred, P.M.<sup>†</sup>, Grant, D.F.<sup>†</sup>, and Landrum, P.F. 1984. Photoinduced toxicity of anthracene in aquatic organisms: An environmental perspective. In *The biosphere: Problems and solutions*, ed. T.N. Veziroglu, pp. 639-658. Amsterdam, The Netherlands: Elsevier Science Publishers.

57. Bolsenga, S.J. 1978. *Photosynthetically active radiation transmission through ice.* NOAA Technical Memorandum ERL GLERL-18.
363. Pinsak, A.P.\* 1976. Physical characteristics. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 27-69. Ann Arbor: Great Lakes Basin Commission.
462. Saylor, J.H. 1977. Physical limnology. In *The waters of Lake Huron and Lake Superior, vol. II, part B: Lake Huron, Georgian Bay, and the North Channel*, ed. Upper Lakes Reference Group, pp. 295-350. Windsor, ON: International Joint Commission.
45. Bennett, E.B.†, and Saylor, J.H. 1977. Physical limnology. In *The waters of Lake Huron and Lake Superior, vol. III, part B: Lake Superior*, ed. Upper Lakes Reference Group, pp. 249-276. Windsor, ON: International Joint Commission.
442. Robertson, A.\* 1976. Plankton-mediated transport of energy-related pollutants. In *Proceedings, second federal conference on the Great Lakes*, ed. J.S. Marshall, pp. 351-360. Ann Arbor: Great Lakes Basin Commission.
157. Eadie, B.J., Faust, W., Gardner, W.S., and Nalepa, T.F. 1982. Polycyclic aromatic hydrocarbons in sediments and associated benthos in Lake Erie. *Chemosphere* 11:185-191.
158. Eadie, B.J., Landrum, P.F., and Faust, W. 1982. Polycyclic aromatic hydrocarbons in sediments, pore water, and the amphipod *Pontoporeia hoyi* from Lake Michigan. *Chemosphere* 11:847-858.
159. Eadie, B.J., Faust, W., and Landrum, P.F. 1982. Polycyclic aromatic hydrocarbons in the benthic organisms of the Great Lakes. *Coast. Ocean Pollut. Assess. News* 2:4.
541. Sullivan, R.A.†, Heidtke, T.M.†, Hall, J.R.†, and Sonzogni, W.C.\* 1981. *Potential impact of changes in Great Lakes water quality on fisheries.* Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
437. Robbins, J.A., Husby-Coupland, K.†, and White, D.S.† 1984. Precise radiotracer measurement of the rate of sediment reworking by *Stylodrilus heringianus* and the effects of variable dissolved oxygen concentrations. *J. Great Lakes Res.* 10:335-347.
14. Assel, R.A., and Quinn, F.H. 1977. *Preliminary classification of Great Lakes winter severity, 1947-76.* GLERL Open File Report.
54. Bolsenga, S.J. 1977. Preliminary observations on the daily variation of ice albedo. *J. Glaciol.* 18:517-521.
539. Stubblefield, B., and Bennett, J.R. 1984. *Preliminary report on GLERL's ice dynamics simulation model.* GLERL Open File Report.

346. Pickett, R.L.\* 1979. *Preliminary tests of GLERL circulation models.* GLERL Open File Report.
389. Quinn, F.H. 1976. Pressure effects on Great Lakes vertical control. *J. Survey. and Mapp. Div.*, ASCE 102:31-37.
18. Assel, R.A., and Lyon, J.G.†, ed. 1984. *Proceedings of the Great Lakes ice research workshop.* Ann Arbor: Great Lakes Environmental Research Laboratory.
458. Rosenberger, D.R.†, and Robertson, A.\*, ed. 1976. *Proceedings, workshop on environmental mapping of the Great Lakes.* Windsor, ON: International Joint Commission Research Advisory Board.
366. Pinsak, A.P.\*, ed. 1975. *Proceedings, workshop on Great Lakes environmental research initiatives.* Ann Arbor: Great Lakes Environmental Research Laboratory.
204. Great Lakes Environmental Research Laboratory. 1983. *Publications by the staff of the Great Lakes Environmental Research Laboratory.* Ann Arbor: Great Lakes Environmental Research Laboratory.
100. Chapra, S.C.\*, and Dobson, H.F.H.† 1981. Quantification of the lake trophic typologies of Naumann (surface quality) and Thienemann (oxygen) with special reference to the Great Lakes. *J. Great Lakes Res.* 7:182-193.
55. Bolsenga, S.J. 1977. *The radiation balance over a continuous snow surface: A review.* GLERL Open File Report.
63. Bolsenga, S.J. 1981. Radiation transmittance through lake ice in the 400-700 nm range. *J. Glaciol.* 27:57-66.
264. Krezowski, J.R.†, and Robbins, J.A. 1981. Radiotracer studies of interactions between sediments and freshwater macrobenthos. *Verh. Internat. Verein. Limnol.* 21:382.
142. Derecki, J.A., and Potok, A.J.\* 1979. Regional runoff simulation for southeast Michigan. *Water Resour. Bull.* 15:1418-1429.
396. Quinn, F.H. 1979. Relative accuracy of connecting channel discharge data with application to Great Lakes studies. *J. Great Lakes Res.* 5:73-77.
176. Gardner, W.S., Nalepa, T.F., Quigley, M.A., and Malczyk, J.M. 1981. Release of phosphorus by certain benthic invertebrates. *Can. J. Fish. Aquat. Sci.* 38:978-981.
23. Aubert, E.J. 1978. Relevance of IFYGL. *Verh. Internat. Verein. Limnol.* 20:317-323.
231. Hawley, N. 1982. Reply. *Sedimentology* 29:906-907.

297. Liu, P.C. 1983. A representation for the frequency spectrum of wind-generated waves. *Ocean Eng.* 10:429-441.
119. Croley, T.E., II, and Hartmann, H.C. 1985. Resolving Thiessen polygons. *J. Hydrol.* 76:363-379.
519. Schwab, D.J., Meadows, G.A.<sup>†</sup>, Bennett, J.R., Schultz, H.<sup>†</sup>, Liu, P.C., Campbell, J.E., and Dannelongue, H.H.<sup>†</sup> 1984. The response of the coastal boundary layer to wind and waves: Analysis of an experiment in Lake Erie. *J. Geophys. Res.* 89:8043-8053.
313. Meadows, G.A.<sup>†</sup>, Schultz, N.<sup>†</sup>, Dannelongue, H.<sup>†</sup>, Bennett, J.R., Campbell, J., Liu, P.C., and Schwab, D.J. 1982. The response of the coastal boundary layer to winds and waves: Analysis of an experiment in Lake Erie. In *Proceedings, third workshop on Great Lakes coastal erosion and sedimentation*, pp. 51-54. National Research Council Canada and Associate Committee for Research on Shoreline Erosion and Sedimentation.
246. Huang, J.C.K.\* 1978. Response of the NCAR general circulation model to north Pacific sea surface temperature anomalies. *J. Atmos. Sci.* 35:1164-1179.
172. Gardner, W.S., and Miller, W.H.<sup>†</sup> 1980. Reverse-phase liquid chromatographic analysis of amino acids after reaction with *o*-phthalaldehyde. *Anal. Biochem.* 101:61-65.
275. Landrum, P.F., Nihart, S.R.\*<sup>†</sup>, Eadie, B.J., and Gardner, W.S. 1984. Reverse-phase separation method for determining pollutant binding to Aldrich humic acid and dissolved organic carbon of natural waters. *Environ. Sci. Technol.* 18:187-192.
555. Thomas, N.A.<sup>†</sup>, Robertson, A.\*<sup>†</sup>, and Sonzogni, W.C.\*<sup>†</sup> 1980. Review of control objectives: New target loads and input controls. In *Phosphorus management strategies for lakes*, ed. R.C. Loehr, C.S. Martin, and W. Rast, pp. 61-90. Ann Arbor: Ann Arbor Science.
114. Croley, T.E., II, Giaquinta, A.R.<sup>†</sup>, and Woodhouse, R.A.<sup>†</sup> 1981. River thermal standard costs in the upper midwest. *J. Energy Div.*, ASCE 107:65-77.
364. Pinsak, A.P.\* 1977. The role of Maumee Bay in level B planning strategies. *Great Lakes Basin Comm. Commun.* 7:5-6.
84. Chambers, R.L.\*<sup>†</sup>, Eadie, B.J., and Rao, D.B.\*<sup>†</sup> 1980. Role of nepheloid layers in the cycling of particulate matter. *Coast. Oceanogr. Climatol. News* 2:32-33.
414. Quinn, F.H., and Croley, T.E., II. 1981. The role of precipitation climatology in hydrologic design and planning on the Laurentian Great Lakes. In *Proceedings, fourth conference on hydrometeorology*, pp. 7-11. Boston: American Meteorological Society.

276. Landrum, P.F., Eadie, B.J., Faust, W.R., Morehead, N.R., and McCormick, M.J. 1985. Role of sediment in the bioaccumulation of benzo(a)pyrene by the amphipod *Pontoporeia hoyi*. In *Polynuclear aromatic hydrocarbons: Eighth international symposium on mechanisms, methods, and metabolism*, ed. M.W. Cooke and A.J. Dennis, pp. 799-812. Columbus, OH: Battelle Press.
160. Eadie, B.J., Rice, C.P.<sup>†</sup>, and Frez, W.A. 1982. The role of the benthic boundary layer in the cycling of PCB's in the Great Lakes. In *Physical behavior of PCB's in the Great Lakes*, ed. D. MacKay, pp. 213-229. Ann Arbor: Ann Arbor Science.
463. Saylor, J.H. 1981. Rotational waves in the Great Lakes and their significance in large-scale mixing processes. *Ocean Manage.* 6:236.
121. Danek, L.J.\*<sup>,</sup> and Saylor, J.H. 1975. *Saginaw Bay water circulation*. NOAA Technical Report ERL 359-GLERL 6.
538. Strong, A.E.<sup>†</sup>, and Eadie, B.J. 1978. Satellite observations of calcium carbonate precipitations in the Great Lakes. *Limmol. Oceanogr.* 23: 877-887.
361. Pickett, R.L.\*<sup>,</sup>, Campbell, J.E., Clites, A.H., and Partridge, R.M.<sup>†</sup> 1983. Satellite-tracked current drifters in Lake Michigan. *J. Great Lakes Res.* 9:106-108.
329. Nalepa, T.F., and Robertson, A.\*<sup>,</sup> 1981. Screen mesh size affects estimates of macro- and meiobenthos abundance and biomass in the Great Lakes. *Can. J. Fish. Aquat. Sci.* 38:1027-1034.
455. Rogers, J.C.\*<sup>,</sup> 1976. Sea surface temperature anomalies in the eastern north Pacific and associated wintertime atmospheric fluctuations over North America, 1960-73. *Mon. Wea. Rev.* 104:985-993.
559. Vanderploeg, H.A. 1981. Seasonal particle-size selection by *Diaptomus sicilis* in offshore Lake Michigan. *Can. J. Fish. Aquat. Sci.* 38:504-517.
211. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *Second annual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
212. Great Lakes Environmental Research Laboratory and the University of Michigan. 1981. *Second semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
404. Quinn, F.H. 1981. Secular changes in annual and seasonal Great Lakes precipitation, 1854-1979, and their implications for Great Lakes water resource studies. *Water Resour. Res.* 17:1619-1624.

112. Croley, T.E., II. 1983. Sediment dynamics in unsteady nonprismatic rills. In *Proceedings, conference on frontiers in hydraulic engineering*, ed. H.T. Shen, pp. 127-132. New York: American Society of Civil Engineers.
323. Nalepa, T.F., and Ischinger, L.S.<sup>†</sup> 1974. *Sediment oxygen demand studies on the Androscoggin, Presumpscot, and Penobscot Rivers, Maine, May and July 1974*. Report to Region I, EPA, and State of Maine prepared by the U.S. Environmental Protection Agency, National Field Investigations Center.
324. Nalepa, T.F., and Ischinger, L.S.<sup>†</sup> 1974. *Sediment oxygen demand studies on the Chowan River, North Carolina, December 1974*. Report to State of North Carolina prepared by the U.S. Environmental Protection Agency, National Field Investigation Center.
163. Eadie, B.J., Chambers, R.L.\*<sup>\*</sup>, Gardner, W.S., and Bell, G.L. 1984. Sediment trap studies in Lake Michigan: Resuspension and chemical fluxes in the southern basin. *J. Great Lakes Res.* 10:307-321.
260. Kadlec, R.H.<sup>†</sup>, and Robbins, J.A. 1984. Sedimentation and sediment accretion in Michigan coastal wetlands (U.S.A.). *Chem. Geol.* 44:119-150.
434. Robbins, J.A. 1982. *Sediments of Saginaw Bay, Lake Huron: Elemental composition and accumulation rates*. Final report to the U.S. Environmental Protection Agency, Large Lakes Research Station, Grosse Ile, MI.
68. Bolsenga, S.J. 1984. Shortwave reflectance and transmittance of ice and snow. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 10-22. Ann Arbor: Great Lakes Environmental Research Laboratory.
382. Quigley, M.A., and Robbins, J.A. 1984. Silica regeneration processes in nearshore southern Lake Michigan. *J. Great Lakes Res.* 10:383-392.
551. Tarapchak, S.J., Slavens, D.R.\*<sup>\*</sup>, Quigley, M.A., and Tarapchak, J.S.<sup>†</sup> 1983. Silicon contamination in diatom nutrient enrichment experiments. *Can. J. Fish. Aquat. Sci.* 40:657-664.
501. Schwab, D.J. 1978. Simulation and forecasting of Lake Erie storm surges. *Mon. Wea. Rev.* 106:1476-1487.
249. Huang, J.C.K.\*<sup>\*</sup>, and Sloss, P.W.\*<sup>\*</sup> 1981. Simulation and verification of Lake Ontario's mean state. *J. Phys. Oceanogr.* 11:1548-1566.
216. Greene, G.M.\*<sup>\*</sup> 1981. *Simulation of ice-cover growth and decay in one dimension on the upper St. Lawrence River*. NOAA Technical Memorandum ERL GLERL-36.

217. Greene, G.M.\* 1981. Simulation of ice-cover growth and thermal decay on the upper St. Lawrence River. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
92. Chapra, S.C.\* 1980. Simulation of recent and projected total phosphorus trends in Lake Ontario. *J. Great Lakes Res.* 6:101-112.
244. Huang, J.C.K.\* 1977. Simulation study of the north Pacific Ocean. In *Symposium on modeling of transport mechanisms in oceans and lakes*, pp. 21-34. Ottawa, ON: Marine Sciences Directorate.
526. Sonzogni, W.C.\* 1981. The slow painting of a 'big picture.' *Great Lakes Basin Comm. Commun.* 11:3.
495. Scavia, D., Fahnstiel, G.L., Davis, J.A.<sup>†</sup>, and Kreis, R.G., Jr.<sup>†</sup> 1984. Small-scale nutrient patchiness: Some consequences and a new encounter mechanism. *Limnol. Oceanogr.* 29:785-793.
483. Scavia, D., Bloomfield, J.A.<sup>†</sup>, Fisher, J.S.<sup>†</sup>, Nagy, J.A.<sup>†</sup>, and Park, R.A.<sup>†</sup> 1974. Software for a generalized model for simulating ecosystems. *Simulation* 23:51-56.
61. Bolsenga, S.J. 1979. Solar altitude effects on ice albedo. NOAA Technical Memorandum ERL GLERL-25.
549. Tarapchak, S.J., Chambers, R.L.\*<sup>\*</sup>, and Bigelow, S.M.\* 1982. Soluble reactive phosphorus measurements in Lake Michigan: Causes of method-specific differences. *J. Great Lakes Res.* 8:700-710.
550. Tarapchak, S.J., Bigelow, S.M.\*<sup>\*</sup>, and Rubitschun, C.\* 1982. Soluble reactive phosphorus measurements in Lake Michigan: Filtration artifacts. *J. Great Lakes Res.* 8:550-557.
543. Tarapchak, S.J. 1983. Soluble reactive phosphorus measurements in lake water: Evidence of molybdate-enhanced hydrolysis. *J. Environ. Qual.* 12:105-108.
552. Thomann, R.V.<sup>†</sup>, and Scavia, D. 1977. Some comments on a water quality model for deep reservoirs. *J. Water Pollut. Control Fed.* 49:507-509.
152. Eadie, B.J., Jeffrey, L.M.<sup>†</sup>, and Sackett, W.M.<sup>†</sup> 1978. Some observations on the stable carbon isotope composition of dissolved and particulate organic carbon in the marine environment. *Geochim. Cosmochim. Acta* 42:1265-1269.
40. Bell, G.L. 1980. Southern Lake Michigan chemical and physical characteristics data for 1975. NOAA Data Report ERL GLERL-13.
103. Cline, J.T.<sup>†</sup>, and Chambers, R.L.\* 1977. Spatial and temporal distribution of heavy metals in lake sediments near Sleeping Bear Point, Michigan. *J. Sediment. Petrol.* 47:716-727.

564. Vanderploeg, H.A., Booth, R.S.<sup>†</sup>, and Clark, F.H.<sup>†</sup> 1976. A specific activity and concentration model applied to cesium-137 movement in a eutrophic lake. In *Radioecology and energy resources*, Ecological Society of America Special Publication No. 1, ed. C.E. Cushing, Jr., pp. 164-177. Stroudsburg, PA: Dowden, Hutchinson, and Ross.
562. Vanderploeg, H.A., Booth, R.S.<sup>†</sup>, and Clark, F.H.<sup>†</sup> 1975. A specific activity and concentration model applied to cesium movement in an oligotrophic lake. In *Mineral cycling in southeastern ecosystems*, ed. F.G. Howell, J.B. Gentry, and M.H. Smith, pp. 142-165. U.S. Energy Research and Development Administration.
58. Bolsenga, S.J. 1978. Spectral distribution of radiation in the northern Great Lakes during winter. *J. Great Lakes Res.* 4:226-229.
295. Liu, P.C. 1979. *Spectral growth and nonlinear characteristics of wind waves in Lake Ontario*. NOAA Technical Report ERL 408-GLERL 14.
64. Bolsenga, S.J. 1981. Spectral reflectances of freshwater ice and snow from 340 through 1100 nm. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
66. Bolsenga, S.J. 1983. Spectral reflectances of snow and freshwater ice from 340 through 1100 nm. *J. Glaciol.* 29:296-305.
490. Scavia, D., and Bennett, J.R. 1980. Spring transition period in Lake Ontario--A numerical study of the causes of the large biological and chemical gradients. *Can. J. Fish. Aquat. Sci.* 37:823-833.
139. Derecki, J.A. 1984. *St. Clair River physical and hydraulic characteristics*. GLERL Open File Report.
6. Assel, R.A. 1976. *St. Lawrence River freeze-up forecast procedure*. NOAA Technical Memorandum ERL GLERL-6.
140. Derecki, J.A. 1984. *St. Marys River physical and hydraulic characteristics*. GLERL Open File Report.
134. Derecki, J.A. 1981. Stability effects on Great Lakes evaporation. *J. Great Lakes Res.* 7:357-362.
438. Robertson, A.\* 1974. Status of the chemical intercomparison programs conducted during IFYGL. *IFYGL Bull.* 10:92.
41. Bell, G.L. 1980. *Straits of Mackinac chemical and physical characteristics data for 1973*. NOAA Data Report ERL GLERL-11.
435. Robbins, J.A. 1982. Stratigraphic and dynamic effects of sediment reworking by Great Lakes zoobenthos. *Hydrobiologia* 92:611-622.
402. Quinn, F.H. 1980. Streamflow. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 135-138. Ann Arbor: Great Lakes Environmental Research Laboratory.

472. Saylor, J.H., and Miller, G.S. 1984. Studies of lake-scale currents and temperature distributions. In *Technical assessment team report on the 1978-79 Lake Erie intensive study*, ed. D.E. Rathke et al. Columbus, OH: Ohio State University.
29. Baer, F.<sup>†</sup>, Rao, D.B.\*<sup>\*</sup>, and Boudra, D.<sup>†</sup> 1976. *Studies on numerical modeling and modification of cyclone scale precipitation*. Report prepared by the University of Michigan for the U.S. Army Research Office under Contract No. DAHC04-73-C-0001.
161. Eadie, B.J., Nihart, S.\*<sup>\*</sup>, and Robbins, J.A. 1982. Study of early diagenesis of compounds in Great Lakes sediments is underway. *Coast. Oceanogr. Climatol. News* 4:43.
220. Greene, G.M.\*<sup>\*</sup> 1984. Sub-committee report: Summary of the discussion on ice characteristics. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 57-59. Ann Arbor: Great Lakes Environmental Research Laboratory.
13. Assel, R.A. 1984. Sub-committee report: Summary of the discussion on ice information and forecasting. In *Proceedings of the Great Lakes ice research workshop*, ed. R.A. Assel and J.G. Lyon, pp. 65-71. Ann Arbor: Great Lakes Environmental Research Laboratory.
27. Aubert, E.J., and Richards, T.L.<sup>†</sup> 1981. Summary of accomplishments. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 367-384. Ann Arbor: Great Lakes Environmental Research Laboratory.
410. Quinn, F.H., Assel, R.A., Boyce, D.E.<sup>†</sup>, Leshkevich, G.A., Snider, C.R.<sup>†</sup>, and Weisner, D.<sup>†</sup> 1978. *Summary of Great Lakes weather and ice conditions, winter 1976-77*. NOAA Technical Memorandum ERL GLERL-20.
15. Assel, R.A., Boyce, D.E.<sup>†</sup>, DeWitt, B.H.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, and Keyes, F.A.<sup>†</sup> 1979. *Summary of Great Lakes weather and ice conditions, winter 1977-78*. NOAA Technical Memorandum ERL GLERL-26.
144. DeWitt, B.H.<sup>†</sup>, Kahlbaum, D.F.<sup>†</sup>, Baker, D.G.<sup>†</sup>, Wartha, J.H.<sup>†</sup>, Keyes, F.A.<sup>†</sup>, Boyce, D.E.<sup>†</sup>, Quinn, F.H., Assel, R.A., Baker-Blocker, A.<sup>†</sup>, and Kurdziel, K.M.<sup>†</sup> 1980. *Summary of Great Lakes weather and ice conditions, winter 1978-79*. NOAA Technical Memorandum ERL GLERL-31.
293. Liu, P.C. 1977. A summary of IFYGL surface wave studies. *IFYGL Bull.* 21:44-48.
319. Mortimer, C.H.<sup>†</sup>, Rao, D.B.\*<sup>\*</sup>, and Schwab, D.J. 1976. A supplementary note and figure added to paper "Free Surface Oscillations and Tides of Lakes Michigan and Superior" by C.H. Mortimer and E.J. Fee. *Phil. Trans. R. Soc. (Lond.)*, Ser. A. 281:58-60.

425. Rao, D.B.\*<sup>†</sup>, Mortimer, C.H.<sup>†</sup>, and Schwab, D.J. 1976. Surface normal modes of Lake Michigan: Calculations compared with spectra of observed water level fluctuations. *J. Phys. Oceanogr.* 6:575-588.
75. Boyd, J.D.\* 1979. A surface spill model for the Great Lakes. GLERL Open File Report.
146. Doughty, B.C.\*<sup>†</sup>, Kessenich, T.A.\*<sup>†</sup>, and Liu, P.C. 1978. Surface wave data recorded in Lake Michigan during 1973 and 1975-77. NOAA Technical Memorandum ERL GLERL-19.
300. Liu, P.C., and Kessenich, T.A.\*<sup>†</sup> 1975. Surface wave data recorded in Lake Ontario during IFYGL. NOAA Technical Memorandum ERL GLERL-2.
305. Liu, P.C., and Doughty, B.C.\*<sup>†</sup> 1980. Surface waves. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 162-199. Ann Arbor: Great Lakes Environmental Research Laboratory.
105. Croley, T.E., II. 1980. Synthetic-hydrograph computations on small programmable calculators. Iowa City, IA: The University of Iowa, Iowa Institute of Hydraulic Research.
107. Croley, T.E., II. 1982. A tank-cascade runoff model for large forested basins. In *Proceedings, Canadian hydrology symposium '82: Hydrological processes of forested areas*, pp. 419-440. Ottawa, ON: Associate Committee on Hydrology, National Research Council Canada.
188. Great Lakes Environmental Research Laboratory. 1975. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
190. Great Lakes Environmental Research Laboratory. 1976. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
192. Great Lakes Environmental Research Laboratory. 1977. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
194. Great Lakes Environmental Research Laboratory. 1978. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
196. Great Lakes Environmental Research Laboratory. 1979. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
198. Great Lakes Environmental Research Laboratory. 1980. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
200. Great Lakes Environmental Research Laboratory. 1981. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.

202. Great Lakes Environmental Research Laboratory. 1982. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
205. Great Lakes Environmental Research Laboratory. 1983. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
207. Great Lakes Environmental Research Laboratory. 1984. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
208. Great Lakes Environmental Research Laboratory. 1985. *Technical plan for the Great Lakes Environmental Research Laboratory*. Ann Arbor: Great Lakes Environmental Research Laboratory.
59. Bolsenga, S.J. 1978. A technique for estimating monthly global radiation. *Water Resour. Bull.* 14:679-688.
72. Bolsenga, S.J., and Greene, G.M.\* 1984. Techniques to measure the spectral reflectance of ice. *SPIE* 489:384-391.
78. Boyd, J.D.\*<sup>†</sup>, and Eadie, B.J. 1978. *Temperature and dissolved oxygen data for Lake Ontario, 1972 (IFYGL)*. NOAA Technical Memorandum ERL GLERL-21.
294. Liu, P.C. 1977. Temporal spectral growth and nonlinear characteristics of wind waves in Lake Ontario. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
213. Great Lakes Environmental Research Laboratory, the University of Michigan, and the University of Minnesota. 1982. *Third semiannual progress report to the Office of Marine Pollution Assessment: The cycling of toxic organic substances in the Great Lakes ecosystem*. Ann Arbor: Great Lakes Environmental Research Laboratory.
47. Bennett, J.R. 1978. A three-dimensional model of Lake Ontario's summer circulation. II. A diagnostic study. *J. Phys. Oceanogr.* 8:1095-1103.
545. Tarapchak, S.J., and Wright, R.F.<sup>†</sup> 1977. Three oligotrophic lakes in northern Minnesota. In *North American project--A study of U.S. water bodies*, ed. L. Seyb and K. Randolph, pp. 64-90. Corvallis, OR: U.S. Environmental Protection Agency.
87. Chapra, S.C.\* 1977. Total phosphorus model for the Great Lakes. *J. Environ. Eng. Div.*, ASCE 103:147-161.
154. Eadie, B.J., and Chambers, R.L.\* 1980. Toxic substances flux program in Lake Michigan. *Coast. Ocean Pollut. Assess. News* 1:7.
418. Rao, D.B.\* 1974. *Transient response of shallow enclosed basins using the method of normal modes*. Inland Waters Directorate, Canada Centre for Inland Waters, Scientific Series No. 38.

137. Derecki, J.A. 1983. *Travel times in the Great Lakes connecting channels.* GLERL Open File Report.
405. Quinn, F.H. 1982. Trends and extremes of Lake Erie water supplies. In *Proceedings, international symposium on hydrometeorology*, pp. 267-270. Minneapolis, MN: American Water Resources Association.
511. Schwab, D.J., Bennett, J.R., and Jessup, A.T.<sup>†</sup> 1981. *A two-dimensional lake circulation modeling system.* NOAA Technical Memorandum ERL GLERL-38.
50. Bennett, J.R., Clites, A.H., and Schwab, D.J. 1983. *A two-dimensional lake circulation modeling system: Programs to compute particle trajectories and the motions of dissolved substances.* NOAA Technical Memorandum ERL GLERL-46.
520. Schwab, D.J., Bennett, J.R., and Lynn, E.W. 1984. *A two-dimensional lake wave prediction system.* NOAA Technical Memorandum ERL GLERL-51.
426. Rao, D.B.\*<sup>,</sup> and Schwab, D.J. 1976. Two-dimensional normal modes in arbitrary enclosed basins on a rotating earth: Application to Lakes Ontario and Superior. *Phil. Trans. R. Soc. (Lond.), Ser. A.* 281:63-96.
566. Vanderploeg, H.A., and Scavia, D. 1979. Two electivity indices for feeding with special reference to zooplankton grazing. *J. Fish. Res. Board Can.* 36:362-365.
480. Scavia, D. 1980. Uncertainty analysis of a lake eutrophication model. Ph.D. dissertation, the University of Michigan, Ann Arbor. University Microfilms.
311. McCormick, M.J., and Tarapchak, S.J. 1984. Uncertainty analysis of calculated nutrient regeneration rates in Lake Michigan. *Can. J. Fish. Aquat. Sci.* 41:206-211.
108. Croley, T.E., II. 1982. Unsteady overland sedimentation. *J. Hydrol.* 56:325-346.
118. Croley, T.E., II, and Foster, G.R.<sup>†</sup> 1984. Unsteady sedimentation in nonuniform rills. *J. Hydrol.* 70:101-122.
278. Lang, G.A. 1984. *Update of U.S. Great Lakes tributary loadings, 1979-80.* NOAA Technical Memorandum ERL GLERL-54.
335. Norton, D.C. 1976. Upland lakes. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 351-372. Ann Arbor: Great Lakes Basin Commission.
375. Potok, A.J.\* 1978. *Upper St. Lawrence River hydraulic transient model.* NOAA Technical Memorandum ERL GLERL-24.

536. Spacie, A.<sup>†</sup>, Landrum, P.F., and Leversee, G.J.<sup>†</sup> 1983. Uptake, depuration, and biotransformation of anthracene and benzo(a)pyrene in bluegill sunfish. *Ecotoxicol. Environ. Safety* 7:330-341.
268. Landrum, P.F. 1982. Uptake, depuration, and biotransformation of anthracene by the scud *Pontoporeia hoyi*. *Chemosphere* 11:1049-1057.
439. Robertson, A.\* 1974. *U.S. IFYGL shipboard data acquisition system*. IFYGL Technical Manual Series No. 5.
481. Scavia, D. 1982. Use and interpretation of detailed, mechanistic models of phytoplankton dynamics. In *Phytoplankton-environmental interactions in reservoirs*, Technical Report E-81-13, vol. 1, ed. M.W. Lorenzen, pp. 196-222. Vicksberg, MS: U.S. Army Corps of Engineers, Waterways Experimental Station.
482. Scavia, D. 1983. Use and limits of ecosystem models: A Great Lakes perspective. In *Proceedings, workshop on marine ecosystem modeling*, ed. K.W. Turgeon, pp. 57-88. Washington, DC: National Oceanic and Atmospheric Administration.
476. Scavia, D. 1979. The use of ecological models of lakes in synthesizing available information and identifying research needs. In *Perspectives on lake ecosystem modeling*, ed. D. Scavia and A. Robertson, pp. 109-168. Ann Arbor: Ann Arbor Science.
184. Gehrs, C.W.<sup>†</sup>, and Robertson, A.\* 1975. Use of life tables in analyzing the dynamics of copepod populations. *Ecology* 56:665-672.
488. Scavia, D., and Eadie, B.J. 1976. The use of measurable coefficients in process formulations--Zooplankton grazing. *Ecol. Modeling* 2:315-319.
492. Scavia, D., Canale, R.P.<sup>†</sup>, Powers, W.F.<sup>†</sup>, and Moody, J.F.\* 1981. Variance estimates for a dynamic eutrophication model of Saginaw Bay, Lake Huron. *Water Resour. Res.* 17:1115-1124.
43. Bell, G.L., and Eadie, B.J. 1983. Variation in the distribution of suspended particles during an upwelling event in Lake Michigan in 1980. *J. Great Lakes Res.* 9:559-567.
317. Monteith, T.J.<sup>†</sup>, and Sonzogni, W.C.\* 1981. *Variations in U.S. Great Lakes tributary flows and loadings*. Great Lakes Basin Commission Great Lakes Environmental Planning Study (GLEPS) Report.
330. Nalepa, T.F., and Robertson, A.\* 1981. Vertical distribution of the zoobenthos in southeastern Lake Michigan with evidence of seasonal variation. *Freshwater Biol.* 11:87-96.
469. Saylor, J.H., Huang, J.C.K.\*<sup>†</sup>, and Reid, R.O.<sup>†</sup> 1980. Vortex modes in southern Lake Michigan. *J. Phys. Oceanogr.* 10:1814-1823.
250. Huang, J.C.K.\*<sup>†</sup>, and Saylor, J.H. 1982. Vorticity waves in a shallow basin. *Dyn. Atmos. Oceans* 6:177-196.

302. Liu, P.C., Miller, G.S., and Saylor, J.H. 1976. Water motion. In *Great Lakes Basin framework study, appendix 4: Limnology of lakes and embayments*, ed. A.P. Pinsak, pp. 119-149. Ann Arbor: Great Lakes Basin Commission.
470. Saylor, J.H., Bennett, J.R., Boyce, F.M.<sup>†</sup>, Liu, P.C., Murthy, C.R.<sup>†</sup>, Pickett, R.L.\*<sup>\*</sup>, and Simmons, T.J.<sup>†</sup> 1981. Water movements. In *IFYGL--The International Field Year for the Great Lakes*, ed. E.J. Aubert and T.L. Richards, pp. 247-324. Ann Arbor: Great Lakes Environmental Research Laboratory.
467. Saylor, J.H., and Boyce, F.M.<sup>†</sup> 1978. Water movements panel. *IFYGL Bull.* 22:69-84.
457. Rooney, J.P.<sup>†</sup>, and Chapra, S.C.\* 1974. *Water quality analysis of the Raritan Bay system*. Report prepared for the Water Programs Branch, Environmental Programs Division, U.S. Environmental Protection Agency--Region II.
3. Almazan, J.A.<sup>†</sup>, and Pickett, R.L.\* 1980. Water temperature. In *IFYGL atlas--Lake Ontario summary data*, ed. C.F. Jenkins, pp. 200-244. Ann Arbor: Great Lakes Environmental Research Laboratory.
464. Saylor, J.H., and Sloss, P.W.\* 1976. Water volume transport and oscillatory current flow through the Straits of Mackinac. *J. Phys. Oceanogr.* 6:229-237.
115. Croley, T.E., II, Carvey, D.G.<sup>†</sup>, and Robb, J.G.<sup>†</sup> 1982. Watershed evaluation and research system application. In *Applied modeling in catchment hydrology*, ed. V. P. Singh, pp. 229-258. Littleton, CO: Water Resources Publications.
318. Monteith, T.J.<sup>†</sup>, Sullivan, R.A.C.<sup>†</sup>, Heidtke, T.M.<sup>†</sup>, and Sonzogni, W.C.\* 1981. *Watershed handbook: A management technique for choosing among point and nonpoint control strategies*. Report prepared for the U.S. Environmental Protection Agency by the Great Lakes Basin Commission and the Great Lakes Environmental Research Laboratory under Interagency Agreement No. AD-85-F-0-061-0.
299. Liu, P.C., and Robbins, R.J.<sup>†</sup> 1974. Wave data analysis at GLERL. In *Proceedings, international symposium on ocean wave measurements and analysis*, pp. 64-73. New York: American Society of Civil Engineers.
42. Bell, G.L. 1980. *Western Lake Superior chemical and physical characteristics data for 1969*. NOAA Data Report ERL GLERL-6.
509. Schwab, D.J., Liu, P.C., Soo, H.K., Kistler, R.D., Booker, H.L., and Boyd, J.D.\* 1980. Wind and wave measurements taken from a tower in Lake Michigan. *J. Great Lakes Res.* 6:76-82.
466. Saylor, J.H., and Danek, L.J.\* 1977. Wind-driven circulation of Saginaw Bay. In *Proceedings, 15th coastal engineering conference*, pp. 3262-3275. New York: American Society of Civil Engineers.

226. Guerra, B.E.\* 1983. *Wind erosion as a source of water pollution--A brief update.* GLERL Open File Report.
512. Schwab, D.J., Shuchman, R.A.†, and Liu, P.C. 1981. Wind wave directions determined from synthetic aperture radar imagery and from a tower in Lake Michigan. *J. Geophys. Res.* 86:2059-2064.
465. Saylor, J.H., and Miller, G.S. 1976. *Winter currents in Lake Huron.* Technical Memorandum ERL GLERL-15.
316. Miller, G.S., and Saylor, J.H. 1981. Winter temperature structure in Lake Huron. *J. Great Lakes Res.* 7:201-206.
440. Robertson, A.\* 1974. Zooplankton. In *Encyclopedia of environmental sciences*, pp. 700-701. New York: McGraw-Hill.

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\*No longer affiliated with this laboratory.

†Not affiliated with this laboratory.

**Appendix: Personnel Roster as of March 31, 1985**

**OFFICE OF THE DIRECTOR**

Aubert, Eugene J.  
Reid, David F.  
Noble, Pauline E.  
McKinney, Thomas H.

Director  
Assistant to the Director  
Secretary to the Director  
Physical Scientist

**Administrative Services**

Mark, Sarah V.  
Lee, John P.  
Hubbard, Bobbie D.  
Dunivan, Edmond M.  
James, Ozzie L.

Head (Administrative Officer)  
Purchasing Agent  
Management Support Assistant  
Maintenance Mechanic  
Custodial Worker

**Computer Systems**

Spalding, Gary E.  
Del Proposto, Donato J.  
Herche, Lynn R.  
Fenton, John F.

Head (Supv. Computer Systems Analyst)  
Computer Programmer  
Computer Programmer  
Student Trainee (Computer Science)

**Information Services**

(Reid, David F.)  
Kelley, Jeanne M.  
Hamilton, Angela Y.  
Greco, Carolyn H.

Head, Information Services  
Supv. Writer-Editor  
Editorial Assistant  
Editorial Clerk

**ECOSYSTEM AND NUTRIENT DYNAMICS GROUP**

Gardner, Wayne S.  
Lojewski, Norma L.  
Gauvin, Jeff M.  
Heatlie, Terry S.  
Nalepa, Thomas F.  
Fahnenstiel, Gary L.  
Quigley, Michael A.  
Tarapchak, Stephen J.  
Vanderploeg, Henry A.  
Laird, Gwenyth A.  
Lang, Gregory A.  
Scavia, Donald  
Chandler, Joann F.  
Liebig, James R.  
Cichocki, Elizabeth A.  
Malczyk, John M.  
Vanover, Lisa

Head (Supv. Physical Scientist)  
Secretary  
Biologist  
Biologist  
Biologist  
Ecologist  
Ecologist  
Ecologist  
Physical Scientist  
Physical Scientist  
Physical Scientist  
Biological Laboratory Technician  
Biological Laboratory Technician  
Physical Science Technician  
Physical Science Technician  
Physical Science Technician

ENVIRONMENTAL SYSTEMS STUDIES GROUP

Fontaine, Thomas D.  
De La Perriere, Earleen  
Morton, Julie A.

Head (Supv. Physical Scientist)  
Secretary  
Physical Scientist

LAKE HYDROLOGY GROUP

Quinn, Frank H.  
Lawton, Barbara J.  
Croley, Thomas E., II  
Derecki, Jan A.  
Assel, Raymond A.  
Bolsenga, Stanley J.  
Hartmann, Holly C.  
Kelley, Raymond N.  
Leshkevich, George A.  
Norton, David C.  
Slizewski, Brian M.  
Stubblefield, Beauregard  
Henson, Merrilyn L.  
Short, Beverly E.  
Kaercher, Craig K.

Head (Supv. Physical Scientist)  
Secretary  
Hydrologist  
Hydrologist  
Oceanographer  
Physical Scientist  
Computer Clerk  
Physical Science Aid  
Student Trainee (Computer Science)

Library

Carrick, Barbara J.

Librarian

PHYSICAL LIMNOLOGY AND METEOROLOGY GROUP

Bennett, John R.  
Townsend, George H.  
Liu, Paul C.  
Schwab, David J.  
Campbell, Joan E.  
Clites, Anne H.  
McCormick, Michael J.  
Miller, Gerald S.  
Saylor, James H.  
Schudlich, Rebecca R.  
Lynn, Edward W.  
Laba, Stephanie J.

Head (Supv. Physical Scientist)  
Secretary  
Oceanographer  
Oceanographer  
Physical Scientist  
Computer Programmer  
Physical Science Aid

Marine Instrumentation Laboratory

Soo, Hung K.  
Booker, Howard L.  
Kistler, Roland D.  
Miller, Terrence C.  
Muzzi, Ronald W.  
Dungan, John E.  
Rutz, Steven B.

Head (Supv. Electronics Engineer)  
Electronics Engineer  
Electronics Engineer  
Electronics Technician  
Electronics Technician  
Engineering Technician  
Engineering Technician

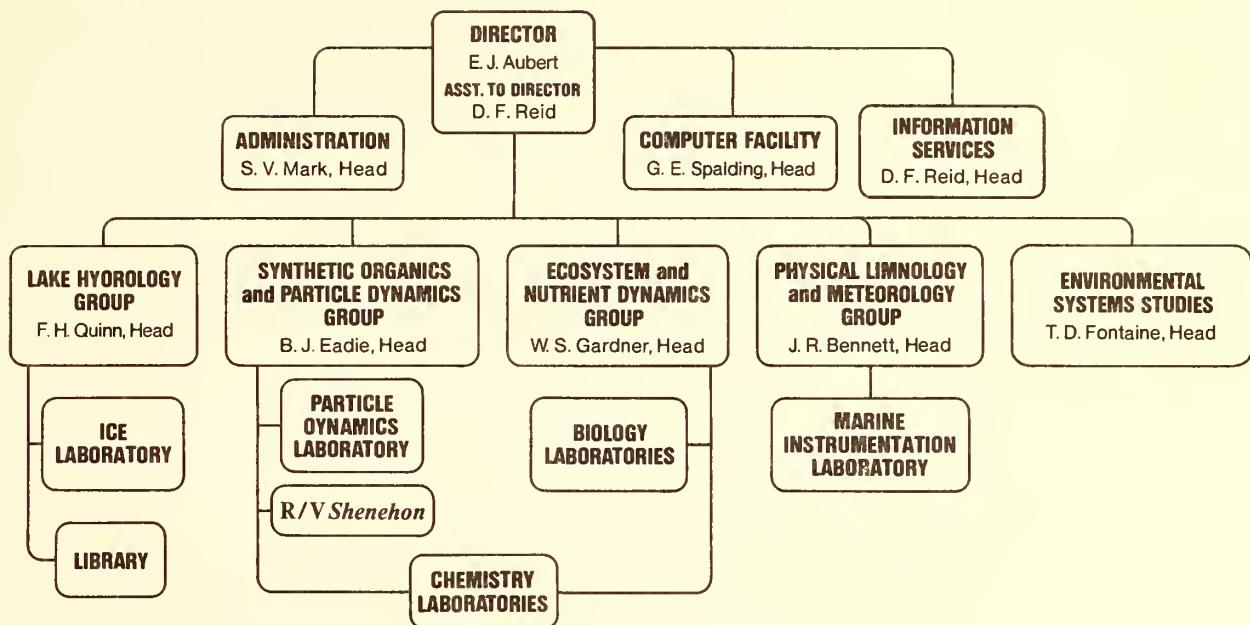
SYNTHETIC ORGANICS AND PARTICLE DYNAMICS GROUP

Eadie, Brian J.	Head (Supv. Physical Scientist)
Gray, Marie J.	Secretary
Frez, William A.	Biologist
Keilty, Timothy J.	Biologist
Morehead, Nancy R.	Chemist
Hawley, Nathan	Oceanographer
Robbins, John A.	Oceanographer
Bell, Gerald L.	Physical Scientist
Hugel, Elizabeth A.	Physical Scientist
Landrum, Peter F.	Research Chemist
Faust, Warren R.	Physical Science Technician
Lake, Brian J.	Student Trainee (Biology)
Poore, Ronald C.	Student Trainee (Biology)
Carrier, Carolyn J.	Student Trainee (Chemistry)

RV *Shenehon*

(Bell, Gerald L.)	Supv. of the <i>Shenehon</i>
Morse, David V.	Master Mate
Grimes, John E.	Engineer
Burns, William R.	Deckhand

GLERL ORGANIZATION CHART











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